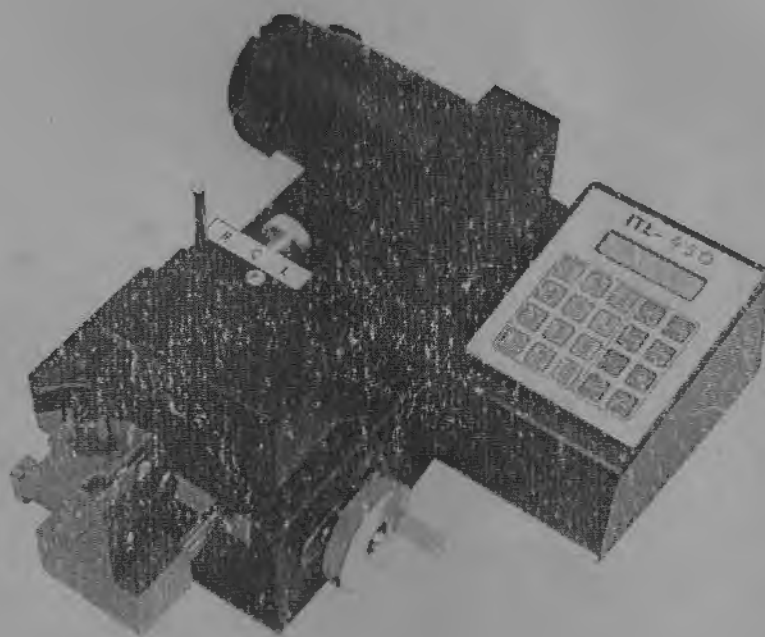


# ITL 950



**THE ITL 950 COMPUTER KEY MACHINE**  
Operations Manual

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# KEY FUNCTIONS

## KEY LEGEND

## DESCRIPTION



Displays or selects a manufacturer as well as insert and flat number.



Displays or selects keycode to be cut. Displays cutter angle where applicable.



Displays Maximum Space to be cut. Also shows tip type and whether key is paused or not. If paused this key will put an L in the display to indicate a Left cut angle.



Displays Max and Min Depths. Note there maybe invalid depths between the max and min values which are invalid, as in Simca. If the table is paused this key will put an R in the display to indicate a right cut angle.



Displays or selects amount of correction to be used when cutting (range is +.009" TO -.009"). This key is also used to display or change both cut feed rate and flat width.



Starts cutting operation and displays Code. If the table is paused this resumes cutting after changing angles.



Corrects number entries and aborts functions.



Resets the machine, same as turning power on. Also aborts a cutting operation.



Entry keys for ID'S, Codes, Etc.



Used to enter 11th depth in code i.e. 0-9,10



Used to switch sign of C.F. and Calibration numbers, -5 is negative. Used also to bypass a cut position in code.

## MACHINE SPECIFICATIONS

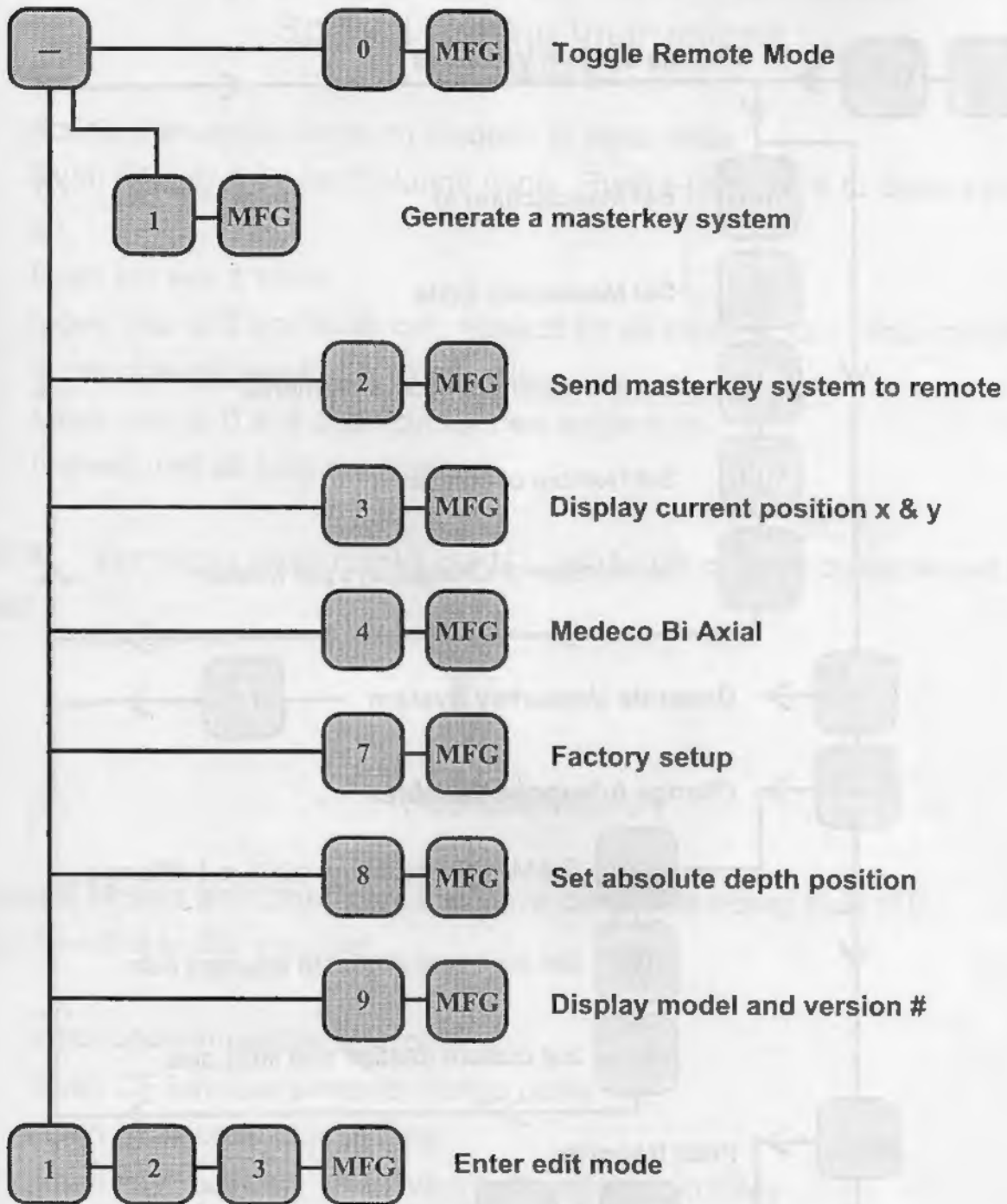
Operating Voltage	- 120 Volts 2 Amps 60 Hz. - 12 Volts 4 Amps DC
Operating Current	- 5 A Pk. 2.5 A Cut .5A Idle
Operating Frequency	- 60 Hertz / DC
Motor Horsepower	- 1/5 H.P.
Cutter Speed	- 3000 R.P.M.
Motor Bearing Type	- Sealed Roller Bearing
Standard Codes	- UP TO 800
Custom Codes	- 10 (User Modified)
Cut Flat range	- 0.001" to 0.140" in 8 steps
User Definable Flats	- 10 with range of 0.001" to 0.140"
Display Format	- 2 Line 16 Character Alpha-Numeric Micro Power LCD
Keyboard Type	- 20 Key Sealed Membrane
Computer Interface	- RS232C 75-9600K Baud
Printer Interface	- Parallel IBM compatible
Repeatable Accuracy	- (+/-) 0.001"
Weight	- 48 Lbs. Packaged

## TABLE OF FLAT NUMBERS AND WIDTHS

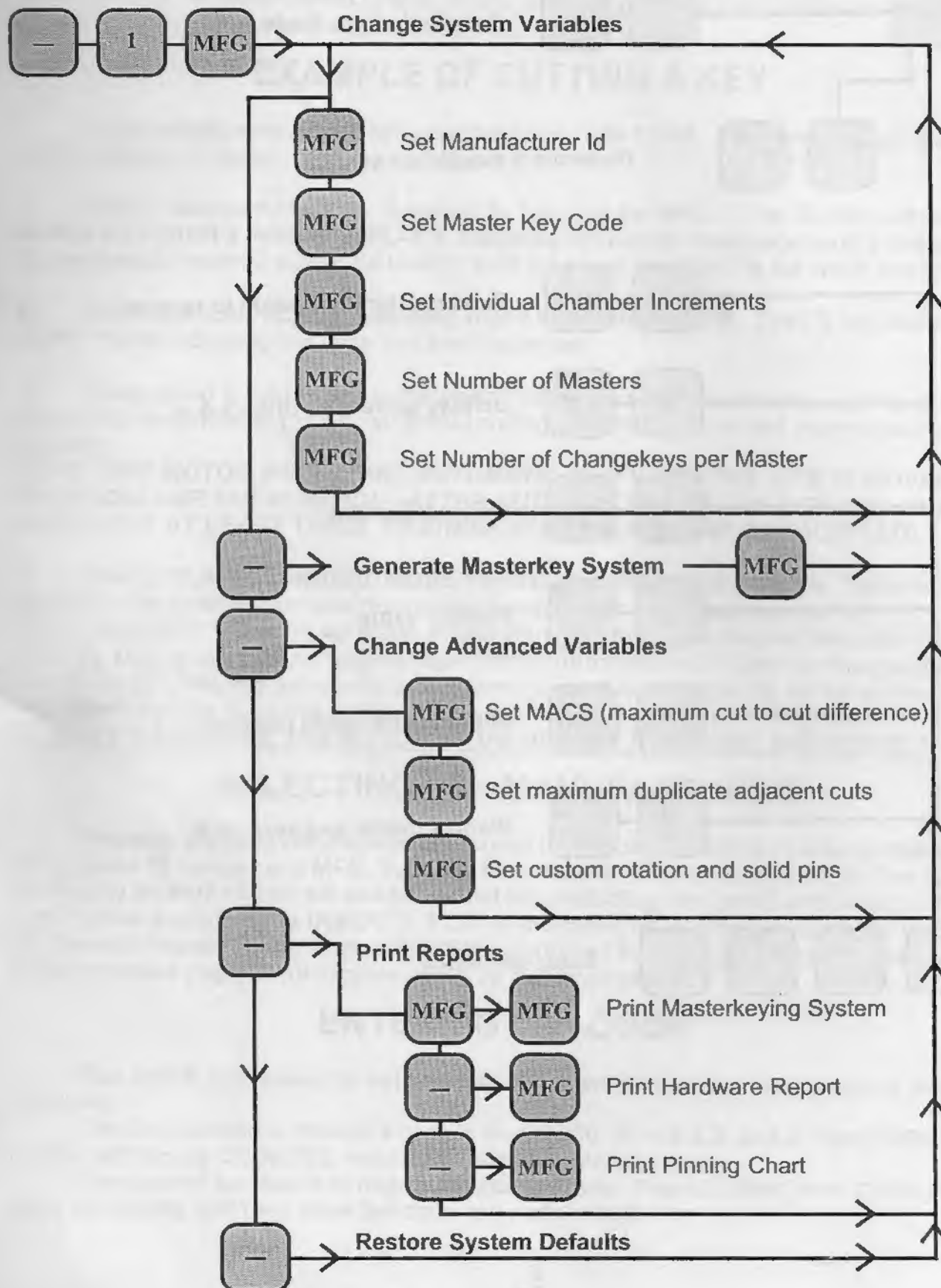
FLAT	NUMBER	WIDTH	EQUIVALENT CUTTER
1		0.014 INCH	CW1012
2		0.024 INCH	37MC USE FOR ASSA
3		0.044 INCH	CW1011
4		0.048 INCH	14MC
5		0.040 INCH	ITL SPECIAL ( GEO )
6		0.032 INCH	Assa
7		0.070 INCH	20MC
8		0.090 INCH	CC100
9		____ INCH	USER DEFINED WIDTH
10		____ INCH	USER DEFINED WIDTH

**TABLE 1**

## "X"tended Modes



# GENERATING A MASTER KEY SYSTEM





## STARTING THE ITL 950

The ITL950 when used with 110 Volt power supply should be plugged in to a switchable power bar with surge suppression.

Turn on the power switch located on the back plate. Follow instructions on the display. [ move vise to right or move vise to left. ]

## EXAMPLE OF CUTTING A KEY

In this example we will use MFG number 2 and code 12345. Later sections will describe each operation in detail.

1) Select Manufacturer 2 by pressing **2**, followed by **MFG**. The ITL950 will display **MANUFACTURER 2 INSERT 2 FLAT 1**, indicating the new ID is accepted and it has loaded the key specs. Insert 2 should be used to hold the blank and Flat 1 is the width of each cut.

2) Select keycode 12345 by pressing keys **1** thru **5**, then **CODE**. The ITL950 will display **CODE 12345** indicating the code has been accepted.

3) Using insert 2 put a blank in the vise. Flip up the shoulder reference arm to position the key but remember to put it down before cutting. Tighten the vise and you are ready to cut the code.

**NOTE: THE MOTOR WILL START AUTOMATICALLY WHEN THE VICE IS MOVED TO THE SHOULDER CUT POSITION. AFTER CUTTING THE KEY THE VISE WILL MOVE IN AND OUT AT LEAST TWICE TO CHECK IT'S POSITION AND RECALIBRATE.**

4) **IN THE ITL900 STANDARD MODE** Press **Cut** to set the cutting display. Turn the space crank until the solid blocks have disappeared and the numbers have gone to "0". When you pass "0" the motor will automatically start. **\*\*Do not leave the machine motor running when not cutting a key as this may damage the control transistors.\*\*** Now turn the space crank toward the tip of the key using a moderate turning speed and the depths will be automatically cut. When the key is cut the motor will turn itself off.

**NOTE MAKE SURE THE MOTOR IS OFF BEFORE REMOVING THE KEY BLANK**

## SELECTING A MANUFACTURER

Pressing the **MFG** key displays the current ID number. To load a new ID number press the required ID number and **MFG**. To select Manufacturer 2, press **2**, then **MFG**. The ITL950 will display **MANUFACTURER 002** on the first line, indicating the specifications were loaded. Line 2 of the display shows **INSERT 2 FLAT 1**, indicating which insert to use in the vise, and the flat width that will be cut. Press **SPACE** to determine if the key is shoulder or tip referenced. Refer to table 4 page 14 for location of the tip reference points.

## ENTERING A CODE

The **CODE** key is used to set and display the code to be cut. It performs 3 different functions.

The first function is to enter a code in the ITL950. Press **1, 2, and 3**, then **CODE**. The ITL950 will display **CODE 123**, indicating it has accepted the code.

The second function is to display the current code. Press **CLEAR**, then **CODE** to first clear the display and then show the code you just entered.

## Special Cutting Instructions

( Medeco )

1. Follow instruction sheet on medeco to input code.
2. Push CF key 4 times to plunge none. Push (-) key once to display plunge all.
3. Push cut key 3 times.
4. Move vise to 0 and push cut. Repeat for all centre cuts. When motor stops change vise to flashing angle.
5. Move vise to 0 and push cut for new angle cuts.
6. Repeat until all cuts are finished.

**NOTE.** For nickel silver blanks our ITL MD01027 carbide cutter should be used.

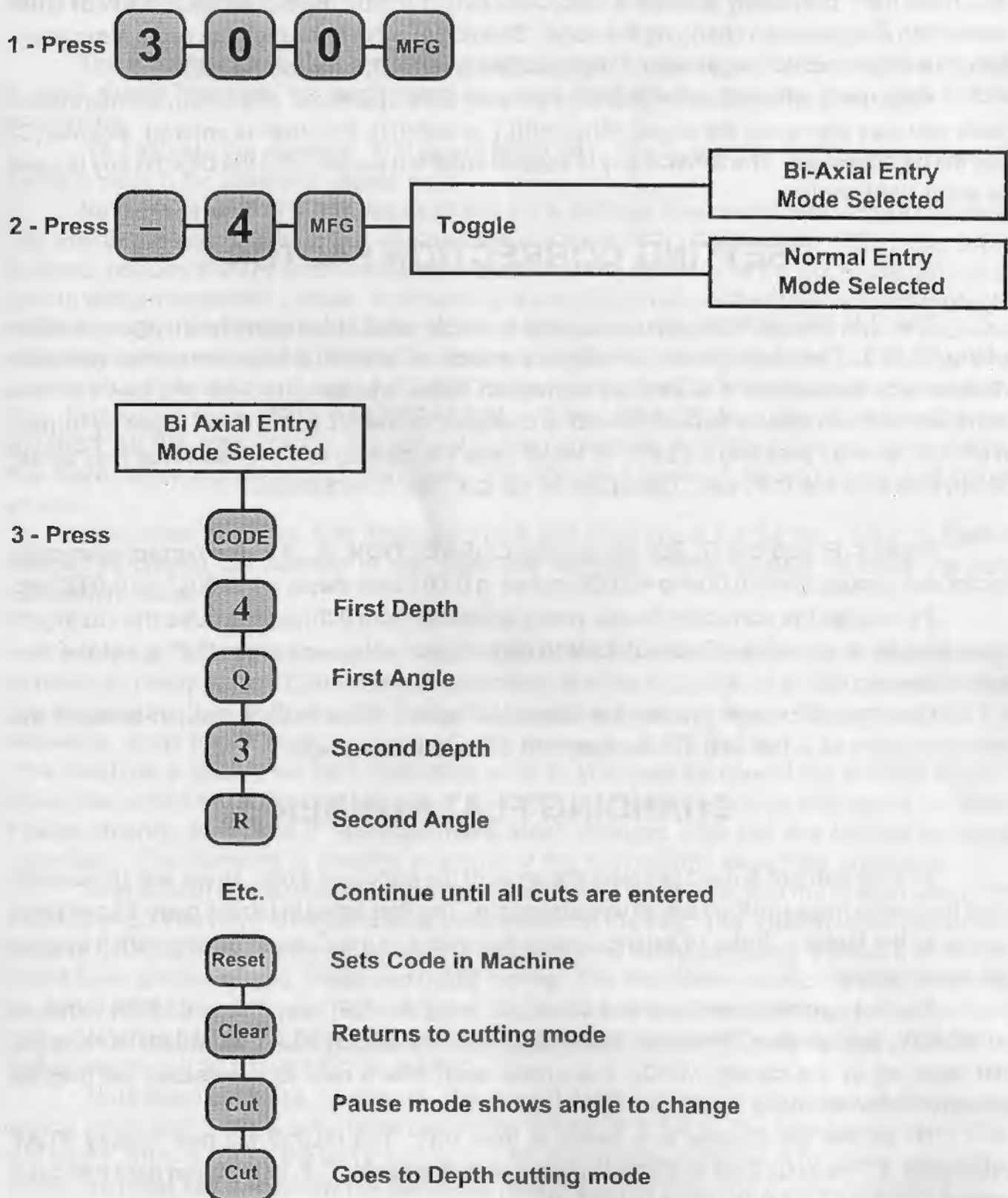
( General Motors )

General Motors and other keys that have deep cuts closer than 110 thousandths to the shoulder.

1. Input code in regular fashion.
2. Push CF key four times to plunge none.
3. Push (-) twice to plunge first.
4. Then push cut key. Move vise to 0 and push cut key.
5. After first cut is complete turn handle to complete other cuts on key in a regular fashion.



## FLOW CHART TO CUT MEDECO BIAxIAL



The third function is useful when doing sequential codes. Press **5** then **CODE**. The ITL950 will display **CODE 125**. The code has changed from 123 to 125. To use this feature you must have previously entered a valid code longer than 2 digits, and you must not enter more than 2 digits when changing the code. Should you wish to change the code completely, you can enter a code longer than 2 digits, select a new ID, or press **RESET**.

Keys using different cutter angles require an extra operation. In addition to entering the code you may also enter the angle, either left(L), or right(R). If neither is entered, a center(C) cut will be displayed. The **SPACE** key is used to enter left angles, and the **DEPTH** key is used to enter right angles.

## SETTING CORRECTION FACTOR

The C.F. key performs several functions and is used to temporarily change operation of the ITL950. The correction factor effects the depth of all cuts. A negative correction factor makes cuts deeper while a positive correction factor makes cuts less shallow. A new correction factor remains set until the ID is changed, or the ITL950 is reset either by turning it off and on or by pressing **RESET**. In either case it is cleared to 0. A new value may be set at anytime with the **C.F.** key. Operation of the **C.F.** key is as follows.

Press **C.F.** and the ITL950 will display **CORRECTION X**. X is the current correction factor and ranges from -0.009 to +0.009 inches in 0.001 inch steps. i.e. 0.001", or 0.002" etc.

To change the correction factor, press a number from 0 through 9. Use the - to toggle from positive to negative. Press **CLEAR** to correct your entry, and press **C.F.** to set the new correction factor.

One special note regarding the correction factor. If the resulting depth is out of the absolute limits of 0.110 to 0.465 inches, that cut will not be made.

## CHANGING FLAT NUMBER

The flat number is used to select the width of the bottom of a cut. There are 10 possible flats to choose from and they are all user definable. The flats listed in table 1 page 3 have been preset at the factory. Refer to setting custom flat widths in the Custom Configuration section for more details.

The flat number is also set and displayed using the **C.F.** key. Press **CLEAR** to return to **READY**, then press **C.F.** twice. The ITL950 will now display **FLAT NUMBER X**. X is the flat selected by the current MFID. It is preset each time a new ID is selected but may be changed after selecting an ID.

To set the flat number to 4, press **4**, then **C.F.** The ITL950 will now display **FLAT NUMBER 4**. Press **CLEAR** to correct an entry before pressing **C.F.** or if no new data has been entered, press **CLEAR** to return to **READY**.

## CALIBRATING THE ITL950

**NOTE !!! IT IS POSSIBLE TO RUN THE CUTTER INTO THE VISE WITH IMPROPER CALIBRATION. BE CERTAIN OF DEPTH CALIBRATION. IF THE CUTTER TOUCHES THE VISE IT WILL DAMAGE THE CUTTER.**

The following is an overview of the calibration of the machine. Calibrating the ITL950 is quite simple however, we recommend you read the following sections thoroughly before attempting.

To calibrate the machine, first select **MFID 391**. This is the SCHLAGE table. Refer to Table 2 page 8 for complete details on it.

Next, place insert 2 in the vise head and put a Schlage blank into it. Make sure the blank sits well in the vise. Tighten the vise and enter a code of 2. Cut the key. When the cut is finished, remove the key and measure the distance from the back of the cut to the bottom of the cut with a micrometer caliper. Subtract the reading you get from the 305 thousandths depth value it should be and note the number down. Measure the distance from the bow or shoulder of the key to the center of the first cut. As above, subtract the reading from the 335 thousandths space value it should be. Press -,1,2,3,MFG keys to enter the EDIT mode and then press **C.F**. The display will show **EDIT CALIIBRATION**. Press **SPACE**. Now the display will show **ADJUST SP BY XXX**. XXX is the current space correction. Add the displayed correction to the the number you calculated previously, the difference between desired space and actual space.

To make a value negative, first enter the value and then press the (-) key. Use **CLEAR** if needed to correct the number or exit from this function. Press **SPACE** to save the new calibration value.

Repeat the previous steps for depth calibration, and when finished, push the reset key to return to ready mode. Correct depth calibration is more critical than space calibration, but the more exact they both are, the better the resulting keys will work. Remember that the allowable range for calibration is from +0.127 inches to -0.127 inches.

The machine is factory set for 0 calibration error so you must be careful not to enter a depth value that would allow the vise to contact the cutter. Double check your calibration numbers before entering them and if possible make small changes until you are familiar with this operation. The following is detailed example of the calculations described previously.

To start with let's assume that the depth calibration is set to -4, and the space calibration is set to (+)5. You have finished cutting and measuring the key. The 0 depth in the calibration table is 0.335 inches. However when you measured the distance from the bottom of the cut to the back of the key, you measured 0.328 inches. The first space position is 0.231 from the shoulder of the key, but you measured it at 0.210. Now the difference between desired and actual depth is  $0.335" - 0.328" = 0.007"$ . The difference between the desired space and the actual depth is  $0.231" - 0.241" = -0.010"$ .

Note down the these 2 numbers. The current depth calibration value was -4, the current space value was 5. The new depth calibration will be  $-4 + 7 = 3$ . The new space calibration will be  $5 + -10 = -5$ . Enter the last 2 numbers, 7 for depth calibration and -5 for space calibration press the reset key and follow the displayed prompts. The machine is now calibrated.

**Table 2**

<b>MFGNUMBER</b>	:	391
<b>MANUFACTURER</b>	:	SCHLAGE/1
<b>BLANK</b>	:	SCHLAGE
<b>INSERTNUMBER</b>	:	2
<b>SPACE 1</b>	0.231	<b>DEPTH 0</b> .335
<b>SPACE 2</b>	0.387	<b>DEPTH 1</b> .320
<b>SPACE 3</b>	0.543	<b>DEPTH 2</b> .305
<b>SPACE 4</b>	0.699	<b>DEPTH 3</b> .290
<b>SPACE 5</b>	0.855	<b>DEPTH 4</b> .275
<b>SPACE 6</b>	1011	<b>DEPTH 5</b> .260
		<b>DEPTH 6</b> .245
		<b>DEPTH 7</b> .230
		<b>DEPTH 8</b> .215
		<b>DEPTH 9</b> .200

## **SETTING DEFAULT MANUFACTURER**

The default of power-on ID is the ID number the machine selects when reset or turned on. As with any ID, it must be in the range of 1 through 810 and is user selectable. Proceed as follows to select your own default ID.

- 1) Press the **-,1,2,3,MFG** keys to enter the **EDIT** position. The display will show **EDIT**.
- 2) Press **CODE** to display the current default ID. To change the ID to 23 press **2** and **3** followed by **CODE**. The ITL950 will display **DEFAULT ID 23**.
- 3) Press the **CLEAR** key to return to the **EDIT** mode. Press the **RESET** key to return to the **RUN** position and the new ID will be displayed when you complete the ITL950 setup sequence.

## **SETTING CUSTOM FLAT WIDTHS**

The flat width determines the width at the bottom of a cut. There are 10 possible flats to choose from and they are all user definable. The following section describes how to set your own flat width.

**\*\*CAUTION\*\* FLAT WIDTHS 1 THROUGH 8 ARE USED WITH THE MANUFACTURER ID'S AND CHANGING THESE FLAT WIDTHS WILL CAUSE WRONG FLAT WIDTHS TO BE CUT.**

Press **-,1,2,3,MFG** keys to enter the **EDIT** mode. Press **1 + CUTKEY** and the display will show **FLAT 1 = 014**. **NOTE:** Flat 1 is the flat width of the installed cutter and when cutters are changed flat 1 should be changed to match the flat width of the new cutter. Pressing **CUT** will step through all the 10 flats. To change a flat enter the desired flat width and press **CUT**.

For table of flat numbers and widths refer to table 1 page 3.

## EDITING A CUSTOM ID TABLE

There are 10 custom IDs you can change yourself. They support the same features as the fixed IDs like the default cut rate and default ID remain set until you alter them. The following sections explain how to edit your own ID.

Enter the **EDIT** mode by pressing the **-,1,2,3,MFG** keys.

## SELECTING ID TO BE EDITED

- (1) To edit ID 803, press **8,0,3**, followed by **MFG**. The **ITL950** will display **EDITING ID 803**. You have now set the ID number to be edited. You must select an edit ID before changing spaces or depths. Remember the range is 801 to 810.
- (2) Press **MFG** again to proceed to step 3 or press **CLEAR** to return to the **EDIT** mode prompt. **CLEAR** may be used at any time to return to the **EDIT** mode.

## SETTING TIP TYPE

- (4) The tip type in a table determines which reference point is used to cut a key. Tip type 0 references a key from the shoulder. Tip types 1 and 2 reference a key from the tip. Tip type 3 is reserved for future use.

The **ITL950** now shows **TIP TYPE = X**. X is the current type ranging from 0 - 3. If a (-) is displayed, it means the current type is invalid. Enter a new type ie. 2 and press **MFG** to save it. Press **CLEAR** to correct an entry before pressing **MFG**. For example to set tip type to 1, press **1** then **MFG**. The display now shows **TIP TYPE = 1**. As above, pressing **MFG** without entering any data, will proceed to the next step.

## SELECTING FLAT TYPE

- (5) Flat type determines how wide the bottom or flat of each cut will be. Tables 1 page 1 detail the widths produced by the different flat numbers. Note that flat 1 produces the same width as the cutter being used.

The **ITL950** now displays **FLAT NUMBER = X**. X ranges from 1 through 10. To select flat 4, press **4**, followed by **MFG**. The display will now show **FLAT 4**. Press **MFG** to continue to step 6, or press **CLEAR** to return to Edit Mode.

## SELECTING INSERT NUMBER

- (6) The **ITL950** will now show **INSERT X**, where X is the current insert type. Refer to table 3 for further information on inserts. To select insert 3, press **3** followed by **MFG**. The display will now show **INSERT 3**. Press **MFG** to continue to step 7. Clear may be used to correct entries or return to edit mode.

## DEPTH LIMITS FOR VISE INSERTS

INSERT NUMBER	OFFSET FROM TRUE 0	RANGE OF DEPTHS
1	0.000 INCHES	0.465 - 0.180 INCHES
2	0.035 INCHES	0.430 - 0.145 INCHES
3	0.070 INCHES	0.395 - 0.110 INCHES

TABLE 3

Note that although there are 4 insert numbers, only 1 through 3 are valid. Insert 4 is reserved for future expansion.

## ENABLING AN EXTENDED TABLE

(7) Most keys can be supported with 10 spaces and 11 depths. However, should you have a code requiring up to 12 spaces, you may add them using the extended table function.

When you select the extended table function, the ID following the one you are currently editing will contain the extra spaces. For example if you were editing ID 803, and selected the extended table function, ID 804 would contain the 2 extra spaces. Note that you should not use ID 804 as a valid ID. When using the extended table, the maximum space in the first table, in this case 803 should be set to 10 and all 10 spaces must be valid. Edit the second ID in this case 804 as with any other custom ID however you need enter only spaces 1 and 2. Space 1 would be the 11th space in an extended ID and space 2 would be the 12th space.

The ITL950 now displays **EXTENDED TABLE X**. X will be either Y or N. Press - to switch it off or on. Repeatedly pressing - will simply toggle between (Y)es and (N)o. Press **MFG** to continue to the next step 8 or press **CLEAR** to return to **EDIT**.

## SETTING MAXIMUM SPACE NUMBER

(8) The maximum space number is used to verify correct table set-up, define table limits and determine code length. Be sure to set it correctly.

The ITL950 now displays **MAXIMUM SPACE X**. X is the current maximum space number. The range is 1 to 10. This should support most keys however 2 additional spaces may be added by using the extended table function. Refer to section 7 for more details. To select a maximum space number of 7, press 7 followed by **MFG**. The display will now show **MAXIMUM SPACE 7**. Press **MFG** to continue to step 9.



## SETTING MAXIMUM DEPTH NUMBER

(9) The maximum depth number is used to verify correct table set-up, and define table limits. Be sure to enter it correctly.

The ITL950 will now show **MAXIMUM DEPTH XX**. XX is the current maximum depth number. The range is 1 to 10 (not the 10 key!). To select a maximum depth number of 8, press **8** followed by **MFG**. The display will now show **MAXIMUM DEPTH 8**. Press **MFG** to continue to step 10. Use the **CLEAR** key to correct an entry or exit to EDIT.

## SETTING MINIMUM DEPTH NUMBER

10) The minimum depth number is used to verify correct table set-up, and define table limits. Be sure to enter it correctly.

The ITL950 will now show **MINIMUM DEPTH X**. X is the current minimum depth number. The range is 0 to 9. To select a minimum depth number of 1, press **1** followed by **MFG**. The display now shows **MINIMUM DEPTH 1**. This is the end of stage 1 in editing a new ID. Press **CLEAR** to exit to the EDIT prompt.

### NOTES REGARDING MAXIMUM SPACE AND MAX/MIN DEPTH NUMBERS

The numbers entered previously are used by the ITL950 to determine which locations in an ID table are valid. All user selectable tables have a total of 10 space values and 11 depth values. The incorrect entry of a number for any of the above steps may result in either an incorrect cut in the key or no cut at all. For example, if you had entered depth values for numbers 1 through 5, and set the maximum depth number to 6 in step 9 without entering a value for depth 6, a 6 in the keycode would produce an undefined cut. If you had previously set the maximum depth to 6, entered all 6 depths and then changed the maximum depth to 5, you would be unable to enter a 6th depth in the code. To sum up be sure your entries are all correct and should your new code fail to work as expected, **DON'T PANIC** recheck the table and you will likely find an error in one of your entries.

## SETTING VALUES IN SPACE TABLE

Press the number of the desired space value to edit, or press 1 to start at the beginning of the space table. The ITL950 will display **SPACE 1 = XXX** where XXX is the current value in .001" increments. For example, **SPACE 1 = 320** means the first cut would be 320 thousandths (.320") of an inch from the shoulder of the key if shoulder referenced. To change this space position to 290 thousandths (.290") of an inch, press **2,9,0** followed by **SPACE**. The display will now show **SPACE 1 = 0290**. Use **CLEAR** to correct the number before pressing **SPACE** or to exit to the **EDIT** mode. Any space value may be edited directly by entering it's number (i.e. 1) and pressing **SPACE**. Pressing **SPACE** repeatedly will proceed through the rest of the space table. This will permit you to quickly check or edit all values at once, or check or change only 1. The limits for space values are .001" through 1.350". These limits refer to the center of a cut relative to the center of the cutter wheel face and are referenced from the bow of the key. Tip referenced keys are dealt with somewhat differently. When setting up a table for a tip referenced key, you must first determine which tip reference point to use. Table 4 details the limit in spaces available with each reference point.

First determine the distance from the tip of the key to the cut closest to the head of the key. Using table 4 subtract this distance from the offset value for each tip reference point until you find one that makes this cut no less than 0.001 inches from the shoulder of the key.

For example if you had a blank with 7 cuts, 0.110 inches apart the distance from the tip to the cut closest to the head of the key would be  $7 \times 0.110 = 0.770$  inches. The first reference point offset is 0.750 inches. So  $0.750 - 0.770 = -0.020$  inches. This is less than 0.001 so try the next one. Now the result is  $1.150 - 0.770 = 0.400$ . This is within our limit so you should enter 2 for tip type. Note that the flat number will also effect which reference point you use. If the cut closest to the head of the key is 0.030" from the head and you select a flat with an offset of 0.040" you will exceed the physical cutting limits by 0.010".

## TABLE OF TIP REFERENCE POINTS

TIP REF #	OFFSET	RANGE OF SPACES	NOTES
0	0.000 INCHES	0.001-1.350 INCHES	SHOULDER REF'D
1	0.750 INCHES	0.000-0.749 INCHES	
2	1.150 INCHES	0.000-1.149 INCHES	USE INSERTS 1A,1B,1S.
3	1.350 INCHES	0.000-1.349 INCHES	REFERENCE FROM RIGHT VISE EDGE

**TABLE 4**

Note that inserts with tip reference points are numbered (1A,1B,1S). The first digit

relates to depth range, the second is for special purpose keys. 1A is for Ford, Mazda and other tip referenced keys. 1B is for Best, Falcon and other bottom tip referenced keys and 1S is for tip referenced safety deposit type keys. Note that tip reference 1 is located by reversing the shoulder reference arm in it's mounting block. Tip point 3 is the right edge of the vise furthest from the shoulder reference point.

## SETTING VALUES IN DEPTH TABLE




Press the number of the desired depth value to edit. Press **0** to start from the beginning of the depth table, followed by **DEPTH**. Note if you have set the minimum depth as 1, 0 will not be allowed so make sure all entries are done correctly. The ITL950 will now display **DEPTH 0 = XXX** where XXX is the current value in 0.001" increments. For example, **DEPTH 0 = 320** means the bottom of the cut would be 320 thousandths (.320") of an inch from the back of the key. To change this depth position to 290 thousandths (.290") of an inch, press **2,9,0** followed by **DEPTH**. The display now shows **DEPTH 0 = 290**. Use **CLEAR** to correct the number before pressing **DEPTH** or to exit to **EDIT** mode. Any depth value may be edited directly by entering it's number (i.e. 1) and pressing **DEPTH**. Pressing **DEPTH** repeatedly will proceed through the rest of the depth table. This will permit you to quickly check or edit all values at once, or check or change only 1. The limits for depth values are 0.105 inches through 0.465 inches. These limits refer to the bottom of a cut and are referenced from the back of the key.

All depth table values can be edited sequentially, by pressing **DEPTH** to step through the table, or individually by entering the desired depth number, then **DEPTH**. Enter **0**, or **1** to start at the beginning of the table depending on the value you have set for minimum depth.


For example if you had set maximum/minimum depths of 0 and 6 and you wanted to set depth 3 to 0.330 inches, you would press **3**, and then **DEPTH**. The ITL950 will now show **DEPTH 03 = XXXX**. XXXX is the current value of depth 3 in the currently selected ID. To set this depth to 0.330 inches, press **330** and then **DEPTH**. The ITL950 will now show **DEPTH 3 = 0330**. Use the **CLEAR** to correct errors or to exit from the routine.


If you want to check or change depth 4, press **DEPTH**. The ITL950 will now show **DEPTH 4 = XXXX**.

## CUTTING KEYS FROM GENERATED MASTER KEY SYSTEM

Push    to toggle between [ Remote Request Selected ] and

[ Manufacturer ID Display Selected ] To cut sytem generated keys you must be in the Remote Request Selected mode. Every key in the masterkey system has it's own unique key number

identity. Enter the key identity number and the  key to call up any key from the master

key system. Pushing the  advances to the next identity number in the master key system.

# SETTING SERIAL PORT PARAMETERS

## SETTING BAUD RATE

Press **CODE** twice to enter the Serial port setup routine. The machine will display the current baud rate. Use table 5 below to select a baud rate code, for example to set the baud rate to 4800, locate the correct baud rate (in this case 7). Now enter the select code (7) and press **CODE** to save the new baud rate or **CLEAR** to erase or correct your entry. Pressing **CLEAR** with no number entered will exit the Serial setup routine without changing the baud rate.

**TABLE 5**

BAUD RATE	SELECT CODE	OTHER PARAMETERS
75	1	8 Data Bits
150	2	1 Stop Bit
300	3	No Parity
600	4	9600 baud Default
1200	5	
2400	6	
4800	7	
9600	8	

## REMOTE OPERATION

All the standard keyboard functions can be performed by remote via the RS232 port on the rear of the ITL950. Table 6 details the characters that perform each function. To perform a particular function by remote you send the letter or number as indicated in table 6 below. The ITL950 will acknowledge it received the character by sending it back to you. For example to select ID 201, you send the numbers 2,0,1 waiting for each number to be acknowledged and then send the letter F. If there was an error ie. invalid ID or the serial port is set wrong, the ITL950 would send an X to indicate the operation was not successful. Remember though that if the serial port is set incorrectly, you may not receive anything or an undefined character so if you have trouble triple check your serial port setup.

## TABLE OF FUNCTIONS AND CHARACTERS

CHARACTER	REMOTE FUNCTION
0	SAME AS PRESSING THE 0 KEY.
1	SAME AS PRESSING THE 1 KEY.
2	SAME AS PRESSING THE 2 KEY.
3	SAME AS PRESSING THE 3 KEY.
4	SAME AS PRESSING THE 4 KEY.
5	SAME AS PRESSING THE 5 KEY.
6	SAME AS PRESSING THE 6 KEY.

7	SAME AS PRESSING THE 7 KEY.
8	SAME AS PRESSING THE 8 KEY.
9	SAME AS PRESSING THE 9 KEY.
A	SAME AS PRESSING THE 10 KEY. (REMEMBER THE 10 KEY IS SPECIAL) SEE CODE SECTION 2-3 FOR MORE DETAILS
B	SAME AS PRESSING THE RESET KEY.
C	SAME AS PRESSING THE CLEAR KEY.
D	SAME AS PRESSING THE DEPTH KEY.
E	SAME AS PRESSING THE SPACE KEY.
F	SAME AS PRESSING THE MFG KEY.
G	SAME AS PRESSING THE C.F. KEY.
H	SAME AS PRESSING THE CODE KEY.
I	SAME AS PRESSING THE CUT KEY.
J	SAME AS PRESSING THE - KEY.
K	DOWNLOAD A KEY TABLE. INDICATES SPECS FOR A KEY TABLE ARE BEING SENT. SEE REMOTE TABLE DATA FORMAT FOR MORE DETAILS.

**TABLE 6**

### **CABLE FOR RS232 PORT**

**\*\*\* TURN THE ITL 950 OFF BEFORE INSTALLING SERIAL OR PARALLEL CABLES \*\*\***

The ITL950 uses a DB9 MALE TO DB9 FEMALE straight through cable. (Supplied)

### **REMOTE TABLE DATA FORMAT**

Using the remote table function, you have unlimited code expansion. You can generate new key specs on your computer and send them to the **ITL950**. This section describes the format of a remote table being sent to the **ITL950**.

The remote table function can only be started by remote so make sure your serial port parameters are set correctly.

Pressing any key on the **ITL950** will stop loading the table and return the machine to ready. Sending more data then a table can contain will also return to ready. The information you send is essentially the same as what you enter for a custom table.

The first character you send to the **ITL950** is a **K**. The **ITL950** will send the character back to you when it's ready. If it does not, or if an **X** is received, again check your serial port setup. After the **K** has been echoed, the **ITL950** will display **LOADING TABLE**. Next you send an **STX** character. In the Basic programming language, this would be chr\$(2). The next character is either a **Y** or an **N**. Note it must be in capitals. Lower case will give an error. The **Y** or **N** indicates whether or not this is a paused key. Now send the Tip type. A **0** is for shoulder referenced keys, while 1 through 3 are for tip referenced keys. See editing a custom table for more information. The next data sent will be the insert number followed by a comma (,). The insert number can be from 1 to 4. Note the balance of the data sent will be followed by a comma. Now you will send the maximum space value it may be from 1 to 12, again followed by the

comma. Maximum depth is next, and ranges from 1 to 10. After maximum depth comes minimum depth ranging from 0 to 9.

The next value is flat number. It is slightly different from a custom table in that for flat 1, no offset you send a 0.

This means that the range of flats would be 0 through 9, not 1 through 10 as with a custom table. The next 12 entries will be spaces 1 through 12. They will all be in increments of 0.001 ". 100, would be 0.100 ". A value of 0.050 " would be sent as 50, while a value of 1.100 " would be sent as 1100. Once again remember the comma after each space value! To make a particular space or depth value invalid, send **FFFF**, instead of a number. After you have sent all 12 space values, you will send 10 depth values in the same format as spaces. Send **FFFF**, to make a particular depth invalid. The next character you send is an ETX character. In Basic, this would be chr\$(3). This character with the STX character you sent at the beginning will frame the remote code as is used to insure that the table is loaded correctly. Finally you will send a second K. When the **ITL950** receives the K, it begins to process the code for internal use. Assuming there are no errors in the table, the display will show **REMOTE TABLE INSERT X FLAT Y**. These values will be what you sent except for flat, which will be the number you sent plus 1. You may now use this table as you would any other table.

*The following is an example remote table.*

DATA #	DATA SENT	DESCRIPTION
1	K	INITIATES REMOTE LOAD OPERATION
2	*STX (02)	MARKS BEGINNING OF TABLE
3	N	DISABLES PAUSE FUNCTION
4	0	INDICATES A SHOULDER REFERENCED KEY
5	2,	SELECTS INSERT KEY WILL BE CUT IN
6	6,	SET MAXIMUM SPACE TO 6
7	10,	SET MAXIMUM DEPTH TO 10
8	1,	SET MINIMUM DEPTH TO 1
9	0,	SET FLAT WIDTH TO 0 (DISPLAYS AS 1)
10	100,	SET 1 TO 0.100" FROM SHLDR
11	150,	SET 2 SPACE TO 0.150"
12	200,	SET 3 SPACE TO 0.200"
13	250,	SET 4 SPACE TO 0.250"
14	300,	SET 5 SPACE TO 0.300"
15	350,	SET 6 SPACE TO 0.350"
16	FFFF,	SET 7 SPACE INVALID
17	FFFF,	SET 8 SPACE INVALID
18	FFFF,	SET 9 SPACE INVALID
19	FFFF,	SET 10 SPACE INVALID
20	FFFF,	SET 11 SPACE INVALID
21	FFFF,	SET 12 SPACE INVALID
22	FFFF,	SET DEPTH 0 INVALID
23	400,	SET DEPTH 1 TO 0.400"
24	390,	SET DEPTH 2 TO 0.390"
25	380,	SET DEPTH 3 TO 0.380"
26	370,	SET DEPTH 4 TO 0.370"
27	360,	SET DEPTH 5 TO 0.360"
28	350,	SET DEPTH 6 TO 0.350"
29	340,	SET DEPTH 7 TO 0.340"
30	330,	SET DEPTH 8 TO 0.330"
31	320,	SET DEPTH 9 TO 0.320"
32	310,	SET DEPTH 10 TO 0.310"
33	*ETX (03)	MARK END OF TABLE
34	K	INDICATE YOUR FINISHED SENDING

\* NOTE BOTH STX AND ETX ARE GENERATED BY PRINTING CHR\$(2), AND CHR\$(3) RESPECTIVELY. THE NUMBERS IN BRACKETS IN THE ABOVE EXAMPLE ARE HEXADECIMAL VALUES. (03) IS HEXADECIMAL 03 NOT THE NUMBER 3 !



## ERROR MESSAGES

<b>INVALID MFG ID RANGE IS 0 TO 960</b>	The ID entered is incorrect, the valid range is 0 through 810. 0 is a special case used to load from the serial port.
<b>INVALID SPACE</b>	The space number or value entered is incorrect. See     Editing a custom id table for more information.
<b>CODE TOO LONG</b>	The code entered is too long and references a space position which is undefined.
<b>INVALID DEPTH(S)</b>	The depth(s) number or value is incorrect. Referto     Editing a Custom ID table for more details.
<b>INVALID C.F. RANGE IS 9 TO -9</b>	Incorrect correction factor. Range is 9 to -9.
<b>NO CODE SET</b>	You must enter both an ID and Code before cutting a key.
<b>OUT OF RANGE RANGE IS 127 TO -127</b>	Space or depth calibration value exceeds limits. Range is 127 to -127.
<b>MEMORY WRITE ERR</b>	A write to the ITL950 memory has failed. Report to your distributor.
<b>INVALID FLAT #</b>	Incorrect flat # entered. Range is 1 through 10.
<b>INVALID INSERT # RANGE IS 1 TO 4</b>	Incorrect insert # entered. Range is 1 through 4.
<b>INVALID MAXSPC 11 RANGE IS 1 TO 10</b>	Incorrect maximum space number. Range is 1 through 10.
<b>INVALID MAXDPT # RANGE IS 1 TO 10</b>	Incorrect maximum depth number. Range is 1 through 10.
<b>INVALID MINDPT # RANGE IS 0 TO 9</b>	Incorrect minimum depth number. Range is 0 or 9.
<b>INVALID BAUD RTE RANGE IS 1 TO 7</b>	Incorrect baud rate number. Range is 1 through 7.
<b>7 OR 8 BITS ONLY</b>	Only 7 or 8 data bits are allowed. Normally 7 is used.
<b>1 OR 2 BITS ONLY</b>	Only 1 or 2 stop bits are allowed. Normally 1 is used.
<b>ERROR LOADING TABLE</b>	Remote code load has failed. Check serial port parameters
<b>INVALID SPEED RANGE IS 1 TO 4</b>	Incorrect feed rate number. Range is 1 through 4.
<b>INVALID TIP TYPE RANGE IS 0 TO 3</b>	The tip number selected is invalid. The range is 0 through 3.
<b>INVALID FLAT WIDTH RANGE IS 1 TO 10</b>	The flat number selected is invalid. The range is 1 through 10.
<b>INVALID DEPTH RANGE IS 110 TO 465</b>	The depth entered is invalid. The range is 110 TO 465.
<b>INVALID SPACE VALUE RANGE IS 1 TO 10</b>	The space entered is out of range. The range is 1 to 10.
<b>BAD TABLE ENTRY</b>	The table being loaded has invalid entries. If it's a custom ID, recheck your entries. If it is in the range of 1 through 800. Check the list of manufacturers and report the error to your distributor. Note that if you select an ID that is not in the list it will not be correct.
<b>INVALID INSERT CF RANGE IS 9 TO -9</b>	The correction value exceeds the allowed range.

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>A CALIBRATION CODE</b>										ITL#	1					Flat 1		Insert 2		
USE TO CALIBRATE ITL 9000																				
54WA																				
200	200	200	200	200	200	200	200	200	200			300	250	200	150					
<b>ABUS/01</b>										ITL#	2					Flat 1		Insert 2		
24																				
24/41																				
155	275	395	515	635	755							260	235	210	185	160				
<b>ABUS/02</b>										ITL#	3					Flat 1		Insert 2		
42																				
42																				
145	285	425	565	705	845							260	235	210	185	160				
<b>ABUS/03</b>										ITL#	4					Flat 1		Insert 3		
5525																				
5525																				
100	225	350	475	600	725							180	150	120						
<b>ABUS/04</b>										ITL#	5					Flat 1		Insert 2		
5530																				
5530																				
140	275	410	545	680	815							260	240	220	200	180				
<b>ABUS/05</b>										ITL#	6					Flat 1		Insert 2		
5540																				
5540																				
130	265	400	535	670	805							270	250	230	210	190	170			
<b>ABUS/06</b>										ITL#	7					Flat 1		Insert 2		
5545																				
5545																				
130	265	400	535	670	805							265	235	205						
<b>ABUS/07</b>										ITL#	8					Flat 1		Insert 2		
5550																				
5550																				
145	270	395	520	645	770							270	245	220	195					
<b>AGE/01</b>										ITL#	9					Flat 4		Insert 2		
-																				
2711KE																				
145	285	425	565	705	845							235	220	200	180					
<b>AGE/02</b>										ITL#	10					Flat 3		Insert 2		
2712																				
A191,AG2																				
120	220	320	420	520	620							235	230	210	190					
<b>AGE/03</b>										ITL#	11					Flat 3		Insert 2		
-																				
191/3																				
135	270	405	540	675	810							231	210	190	169					
<b>ALFA ROMEO/01</b>										ITL#	12	FX98	FGK222			Flat 6		Insert 2		
SER 1100-1789 3100-3789 5100-5789 DOOR & TRUNK 76-80																				
X64,X79,X78 DL																				
89	195	301	407	514	620							235	205	175						
<b>ALFA ROMEO/02</b>										ITL#	13	FX93	FGK174			Flat 6		Insert 2		
2100-2307 4100-4307 6100-6307 8100-8307 DOOR & TRUNK 66-80																				
F72Y,F72X,F72																				
221	320	418	517	615								268	244	220						

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10	
ALFA ROMEO/03										ITL#	181	XF90	FGK172			Flat 3		Insert 2			
A 501-3278 A44444-00000 DIRECT (SPIDER 70-80) CURTIS 1,2,3,4,5 = REED 0,9,8,4,6																					
F74T IL F44 DL																					
146	250	354	459	563						272				220			200			240 260	
ALFA ROMEO/04										ITL#	15				Flat 3		Insert 2				
D & S 114-399 614-899																					
63R,R63R DL 61																					
450	550	650	750	850	950						275	250	225								
ALFA ROMEO/05										ITL#	18	XF97	FGK263			Flat 3		Insert 2			
AL0001-1274, MILANO 1987 UP																					
X166																					
98	185	272	358	445	531	618	705	791						276	252	228	205				
ALFA-FERRARI-FIAT-YUGO										ITL#	20	XF96	FGK229			Flat 3		Insert 2			
K3301-4886,7001-8092,S0301-3300,0501-3278,T5000-6207,7001-8092																					
X152 IL FT46																					
146	250	354	459	563	667						289				238			219			258 278
ALMONT										ITL#	21				Flat 4		Insert 2				
RE-KEY PADLOCK																					
IL 1145																					
240	390	540	690	840	990						324	312	300	288	276	264	252	240	228	216	
AMERICAN										ITL#	22				Flat 3		Insert 2				
P4,P4-1/2,P5,P5-1/2,P6																					
ORIG LKB5																					
155	285	415	545	675	805						260	235	210	185	165						
AMERICAN DEVICE										ITL#	23				Flat 3		Insert 2				
LETTER BOX																					
IL R22B																					
190	315	440	565	690	815						280	262	244	226	208	190	172				
AMERICAN MOTORS/01										ITL#	24	04				Flat 3		Insert 2			
1970+ JEEP I.H. DISC																					
DL 1098X,1098																					
150	243	336	429	522						250	235	220	205	190							
AMERICAN MOTORS/02										ITL#	25	01				Flat 3		Insert 2			
PRE 1970 DISC IGNITION GAS CAP RAMBLER																					
IL 1046																					
150	243	336	429	522						250	225	200	175	150							
AMERICAN/01 (JUNKUNC)										ITL#	26	30				Flat 4		Insert 2			
PADLOCK																					
156	281	406	531	656	781						284	268	253	237	221	206	190	175			
AMERICAN/02 (JUNKUNC)										ITL#	500				Flat 4		Insert 2				
400K																					
130	255	380	505							210	195	180	165	150	135					272	
AMEROCK										ITL#	27				Flat 4		Insert 2				
IL 1179A																					
264	419	574	729	884	1039						312	298	284	270	256	242	228	214	200	186	
ARCO/01										ITL#	28				Flat 3		Insert 2				
BANK BAGS AR-SERIES																					
IL SC1098X																					
125	220	315	410	505	600						250	225	200	175	150	125					

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10		DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10		
ARCO/02										ITL#	29	X18							Flat	3		Insert	2
BANK BAGS																							
31,31R																							
187	312	437	562	687	812	937					320	285	250	215	180								
ARCO/03										ITL#	30								Flat	3		Insert	2
RR-YY																							
187	312	437	562	687	812	937					320	302	284	266	248	230	212						
ARROW(PLYMOUTH)/01										ITL#	31								Flat	3		Insert	2
H 0001-5143																							
X54 DL MS12																							
85	185	285	385	485	585						273	263	243	223									
ARROW(PLYMOUTH)/02										ITL#	32								Flat	3		Insert	2
SL 5001-7000																							
X16 DL 771CH																							
105	198	291	384	477	570	663	756	849	942		315	290	265	240									
ARROW/01										ITL#	33								Flat	4		Insert	2
STANDARD																							
IL 1014 ORIG 11																							
230	390	550	710	870	1030						320	302	284	266	248	230	212	194	176				
ARROW/02										ITL#	34								Flat	4		Insert	2
NEW																							
IL 1179 ORIG K																							
265	420	575	730	885	1040						335	321	307	293	279	265	251	237	223	209			
ARROW/03										ITL#	27	02							Flat	4		Insert	2
KEY-IN-KNOB(HEAVY DUTY)																							
IL 1179																							
264	419	574	729	884	1039						312	298	284	270	256	242	228	214	200	186			
ARROW/04										ITL#	36								Flat	4		Insert	2
OLD																							
IL 1179																							
265	420	575	730	885	1040						335	315	295	275	255	235	215						
ARROW/05B										ITL#	37								Flat	4		Insert	2
DOUBLE SIDED BOTTOM																							
IL 1025 ORIG K																							
130	320	510									295	275	255	235									
ARROW/05T										ITL#	38								Flat	4		Insert	2
DOUBLE SIDED TOP SIDE																							
IL 1025 ORIG K																							
218	408	598									295	275	255	235									
ASSA/01										ITL#	39								Flat	2		Insert	1
CUT TO CUT 0.170 1ST CUT 0.190 FROM BOW																							
190	360	530	700	870	1040						328	300	272	244	216	188							
ASSA/02										ITL#	40								Flat	2		Insert	1
CUT TO CUT 0.165 1ST CUT 0.180 FROM BOW																							
180	345	510	675	840	1005						328	300	272	244	216	188							
ASSA/03										ITL#	41								Flat	6		Insert	2
600 AND 6000																							
264	413	563	713	862	1012						159	182	206	230	253	277	300	324	348				

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>AUDI/01</b>										ITL# 42		XF20		FGK157		Flat 3		Insert 1		
11X11-91X91 11W11-91W91																				
A81R,A81S DL																				
98 177 256 335 413 492 571 650										256 234 212										
<b>AUDI/02</b>										ITL# 43						Flat 3		Insert 2		
3101-5300 A 3101-5300																				
A81N DL H62VN																				
138 238 338 438 538 638 738 838 938 1038										265		230		200						
<b>AUDI/03</b>										ITL# 356		XF04		FGK125		Flat 3		Insert 1		
AH AN HV N NV VB 1-854 2001-2830 4001-5151 7101-8154 ENTER 2ND 4TH 6TH SP TWI																				
X9 X88																				
105 195 235 330 425 465 590 705 745 865										300 276 252 228										
<b>AUDI/04</b>										ITL# 357		XF04		FGK126		Flat 3		Insert 2		
AH AN HV N NV VB 1001-1918 3001-3890 6001-7086 8201-9282																				
X9,X88																				
105 195 235 330 445 570 610 705 745 865										300 276 252 228										
<b>AUSTIN HEALEY</b>										ITL# 44		XF43				Flat 6		Insert 2		
FS 001-099 876-955																				
S/1B DL 62DS																				
162 257 352 447 542										238 205 175										
<b>AUTH/01</b>										ITL# 45						Flat 1		Insert 3		
ORIG 676-1																				
150 290 430 570 710 850										270 257 245 232 220 207 195 182 170 157										
<b>AUTH/02</b>										ITL# 46						Flat 3		Insert 2		
HL																				
HL1																				
195 325 455 585 715 845										290 270 250 230 210										
<b>AUTH/03</b>										ITL# 47						Flat 1		Insert 3		
IM																				
IL 1427																				
23 68 113 158 203 248										262 237 200 170 130										
<b>AUTH/04</b>										ITL# 48						Flat 1		Insert 2		
S																				
IL 1427																				
28 83 138 193 248 303										292 260 230 200 170										
<b>AUTH/05</b>										ITL# 49						Flat 1		Insert 3		
LETTER BOX E 1-99																				
T50 IL 1225N																				
16 57 98 139 180 221										260 235 200 165 130										
<b>AUTH/06</b>										ITL# 50						Flat 1		Insert 3		
LETTER BOX E 100-250																				
T50 IL S1225N																				
16 47 78 109 140 171										260 235 200 165 130										
<b>B&amp;S</b>										ITL# 24		04				Flat 3		Insert 2		
REGULAR WAFER																				
IL H1098M																				
150 243 336 429 522										250 235 220 205 190										
<b>BALDWIN</b>										ITL# 51						Flat 4		Insert 2		
SE1																				
265 421 577 733 889										310 290 270 250 230 210 190										

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>BARGMAN</b>																				
WAFER										Flat 3 Insert 2										
IL L1098M																				
150	245	340	435	530							250	235	220	205	190					
<b>BEST A2/01</b>																				
A2 I.C.										Flat 4 Insert 1 B										
IL 1114A ORIG																				
88	238	388	538	688	838	988				319	306	294	281	269	256	244	231	219	206	
<b>BEST A4/03</b>																				
A4 K,L,M I.C.										Flat 4 Insert 1 B										
DL 114																				
88	238	388	538	688	838	988				319	298	277	256	235	214					
<b>BEST-FALCON</b>																				
A3 K,L,M I.C.										Flat 4 Insert 1 B										
88	238	388	538	688	838	988				319	301	283	265	247	229	211				
<b>BMW CYCLE</b>																				
111110-555550 DIRECT DIGIT #1 IS DEEPEST CUT										FGK202 Flat 3 Insert 2										
DL SR61N																				
142	246	350	455	559							157	177	197	217	236					
<b>BMW/01A</b>																				
W1001-2019 W7001-8000 1968-76 IGN + DOOR SHOULDER SIDE										Flat 7 Insert 2										
100	250	400	550								255	232	209	186	255	232	209			
<b>BMW/01B</b>																				
W1001-2019-W7001-8000 IGN-DOOR 1968-76 PLAIN SIDE										Flat 5 Insert 2										
B80NR,B73T DL																				
180	336	492	648								255	232	209	186	255	232	209			
<b>BMW/02</b>																				
B101-300 B401 630 ENTER 4 FOR "A"										Flat 3 Insert 2										
B77U DL WT3																				
118	220	323	425	528	630						252	228	205	181	217					
<b>BMW/03</b>																				
CZ 1-2000										Flat 3 Insert 2										
B71F DL 64E																				
135	235	335	435	535	635						265	255	240	220	205	190	175			
<b>BMW/04</b>																				
D,E,F,V,Z(03-05-064)										Flat 3 Insert 2										
62V0 DL 62V0																				
125	235	345	455	565	675						270	255	240	225	210					
<b>BMW/05A</b>																				
HB,NB 10,000-20,000 11 WAFER 1984+										FGK252 Flat 3 insert 2										
X59 IL BMW2,B																				
107	189	272	354	437	520	602	685	768	850		327	303	280	256						
<b>BMW/05B</b>																				
11TH SPACE FOR BMW/11 ( DO NOT USE )										Flat 3 Insert 2										
933																				
<b>BMW/06A</b>																				
SHOULDER SIDE N & W 1421-2000.										Flat 3 Insert 2										
B80NR DL HF28																				
100	248	396	544	692	840						260	236	212							



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>BMW/06B</b>																				
							ITL#	65								Flat 3		Insert 2		
PLAIN SIDE N&W 1421-2000																				
B80NR DL HF28																				
185	333	481	629	777	925					260	236	212	188							
<b>BMW/07A</b>																				
							ITL#	68								Flat 3		Insert 2		
SHOULDER SIDE A,N,W,X 1001-1420																				
DL HF18, HF26																				
100	248	396	544	692	840	988	1136					260	236	212						
<b>BMW/07B</b>																				
							ITL#	67								Flat 3		Insert 2		
PLAIN SIDE A,N,W,X 1001-1420																				
DL HF18, HF26																				
185	333	481	629	777	925	1073				260	236	212	188							
<b>BOMMER</b>																				
							ITL#	23								Flat 3		Insert 2		
HUDSON																				
HL2																				
190	315	440	565	690	815					280	262	244	226	208	190	172				
<b>BRITCAR</b>																				
							ITL#	71	XF44							Flat 7		Insert 2		
MID 60'S BRITISH CARS BIKE FORK LOCKS AND VOLVO																				
62DG, 62H, 62HR																				
162	257	352	447	617	640							238	205	175						
<b>BRITISH CAR GAS CAPS</b>																				
							ITL#	72								Flat 4		Insert 2		
RR 502-579																				
B69K DL SR61N																				
160	286	412	538	664								190	170	150						
<b>BRITISH FORD/01</b>																				
							ITL#	73	XF45							Flat 3		Insert 2		
SER FT/V101-225, BC, FT/V, VM301-360, VT400-474																				
F68YT, T72C, X1																				
232	326	420	514	608								291	259	227						
<b>BRITISH FORD/02</b>																				
							ITL#	74								Flat 3		Insert 2		
FT 1001-2001																				
F61K DL CE1																				
205	303	401	499	597	695	793	891	989	1087			285	255	225						
<b>BRITISH LEYLAND/01</b>																				
							ITL#	75	XF41							Flat 3		Insert 2		
BL1001-2000 RO1001-2000 W1001-2000 CRICKET SL 5001-7000																				
X50, X16 DL LF1																				
108	202	296	390	484	578	672	766	860	954			314	289	264	239					
<b>BRITISH LEYLAND/02</b>																				
							ITL#	76	XF42							Flat 3		Insert 2		
TRIUMPH MG CHRYSLER AUSTIN NH																				
M61G DL UN2																				
160	255	350	445	540	635	730	825	920	1015			314	289	264	239					
<b>BRITISH LEYLAND/03</b>																				
							ITL#	77	XF70							Flat 3		Insert 2		
2001-3000 & 3001-4949																				
X51 DL NE21																				
98	189	280	370	461	551	642	732					284	264	244	224					
<b>BROOK NATIONAL</b>																				
							ITL#	78	X29							Flat 4		Insert 2		
EZ-SET																				
IL 1177N																				
248	404	506	716	872	1030							306	287	268	249	230	211	192		
<b>CADILLAC ALLANTE</b>																				
							ITL#	79	XF204							Flat 3		Insert 2		
VA DOOR & TRUNK 1987+																				
X162, B59																				
118	209	299	390	480	571							283	264	244	224					

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10		
<b>CAPRI/01</b>										ITL# 80		Flat 3		Insert 2								
EL & ER 1-195 PN 101-295																						
130	250	370	490	610						275	255	235										
<b>CAPRI/02</b>										ITL# 81		XF12		FGK187		Flat 3		Insert 2				
XL & XR 1-195																						
X21,X22 DL YM																						
140	258	376	494	612						287	267	247	227									
<b>CAPRI/03</b>										ITL# 82				Flat 3		Insert 2						
TC 1-1000																						
X20 DL KL6																						
75	164	216	310	409	461	545	645	744	796	320	295	270	245									
<b>CAPRI/04</b>										ITL# 83		XF11		FGK186		Flat 3		Insert 2				
AK,JC ROVER AK MID 70'S *CAUTION* ENTER 2ND,4TH & 7TH CUTS TWICE																						
X86 DL CE9																						
80	175	225	320	415	465	560	660	755	805	325	295	270	245									
<b>CESSNA</b>										ITL# 84				Flat 3		Insert 2						
-																						
IL C1054B																						
127	222	317	412	507	602						245	230	210	190	170							
<b>CHALLENGER</b>										ITL# 85		X51				Flat 3		Insert 2				
C & KEY-IN-KNOB																						
IL 1170B																						
213	369	525	681	837	993						322	307	292	277	262	247	232	217	202			
<b>CHANTRELL</b>										ITL# 86						Flat 4		Insert 2				
-																						
IL 1015A																						
277	433	589	745	901	1057						338	320	302	284	266	248	230	212	194	176		
<b>CHESLER</b>										ITL# 87		X43				Flat 4		Insert 2				
-																						
IL 1178																						
222	378	534	690	846						315	305	280	255	230	205	180	155	155				
<b>CHEVROLET/01</b>										ITL# 88		XF85				Flat 2		Insert 2				
CHEVY SPECTRUM 85+ ISUZU IMARK85+ TOY 84+ MITSB COLT 84+SPRINT																						
IL B53																						
118	236	354	472	591	709						325	297	270	242								
<b>CHEVROLET/02</b>										ITL# 285		XF86				Flat 3		Insert 2				
CHEVY NOVA(TOYOTA) 1986+ R FOR IGN S FOR SECONDARY																						
X145,X146 IL B5																						
98	197	296	394	492	591						276	256	236	217								
<b>CHICAGO/01</b>										ITL# 90		6				Flat 3		Insert 2				
PIN-TUMBLER																						
KP1,KP2,KP3,K																						
156	296	436	576	716						266	250	234	218	202	186	170						
<b>CHICAGO/02</b>										ITL# 91						Flat 4		Insert 2				
AH																						
IL 1054JK																						
156	296	436	576	716	856						270	250	230	210	190							
<b>CHICAGO/03</b>										ITL# 92						Flat 3		Insert 2				
-																						
KP12,KP18																						
156	296	436	576	716	856						276	266	250	234	218	212	186	170				

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10	
CHICAGO/04										ITL# 93					Flat 3					Insert 2	
K101,K102,K103																					
139	232	325	418	511	604					250	220	190									
CHICAGO/05										ITL# 94					Flat 3					Insert 3	
S																					
KP9																					
140	280	420	560	700	840					261	243	225	207	189	171	153	135				
CHICAGO/06										ITL# 95 5					Flat 3					Insert 2	
WAFER																					
K5,K5K,K35,K39																					
139	232	325	418	511	604					250	235	220	205	190							
CHRYSLER/01										ITL# 96 8					Flat 3					Insert 2	
BP CA CB CJ 1939 TO 1967 PIN TUMBLER																					
ORIG 24,26,28																					
146	286	426	566	706					255	230	205	180	155								
CHRYSLER/02										ITL# 97 7					Flat 3					Insert 2	
CV 1959 TO 1967 WAFER TRUNK/GLOVE																					
ORIG 30																					
107	200	293	386	479	572					250	225	200	175								
CHRYSLER/03										ITL# 98 9					Flat 3					Insert 2	
DP DS 1968 IGNITION/TRUNK PIN TUMBLER																					
ORIG 61																					
146	286	426	566	706					246	221	196	171	146								
CHRYSLER/04										ITL# 99 10					Flat 3					Insert 2	
EP ES 1969+ PIN TUMBLER																					
ORIG 61																					
146	286	426	566	706					246	226	206	186	166	146							
CHRYSLER/05										ITL# 100 X59					Flat 3					Insert 1 A	
G 0000-1394										B-T											
IL P1989P										C											
757	665	573	481	389	297	205				340	315	290	265								
CHRYSLER/06										ITL# 515					Flat 3					Insert 1 A	
J0001-3580 93+																					
IL Y155																					
849	757	665	573	481	389	297				340	315	290	265								
CITROEN/01										ITL# 101					Flat 3					Insert 2	
A,B,E,T,U,V,W,X,Y,Z 11111-77777 DIRECT DIGIT																					
C81H DL VC25,																					
80	205	330	455	580	705					200	220	240	260								
CITROEN/02										ITL# 102					Flat 3					Insert 2	
BT,YU,UY,AY,ZX,EX,WX,WTX,TT,VU																					
130	255	380	505	630	755					200	220	240	260	280							
CLINTON										ITL# 103 X22					Flat 4					Insert 2	
123,123A IL 102																					
170	326	482	638	794	950					333	320	308	295	283	270	258	245	233	220		
COLE-HERSEE										ITL# 104					Flat 3					Insert 2	
BOAT																					
IL 1122AR																					
125	219	313	407	501	595					250	230	210	190								

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
COLT(DODGE)/01 H 0001-5143 X54 DL MS12 85 185 285 385 485 585										ITL# 31  Flat 3 Insert 2										
COLT(DODGE)/02 SL 5001-7000 X16 DL 771CH 105 198 291 384 477 570 663 756 849 942										ITL# 32  Flat 3 Insert 2										
COLUMBIA FILE CABINET IL 1014DX 125 218 311 404 497 590										ITL# 105  Flat 3 Insert 3										
COMMODORE/01 FILE CABINET DL CD1 125 265 405 545 685										ITL# 106  Flat 3 Insert 2										
COMMODORE/02 FILE CABINET DL SY1 150 300 450 600 750										ITL# 107  Flat 3 Insert 2										
CORBIN/01 27,57,67,77,97,99,AR,BR,BL X CLASS SYSTEM 70 IL R01EG ORIG 197 353 509 665 821 977 1133										ITL# 108 X5  Flat 4 Insert 2										
CORBIN/02 X CLASS, PRE SYSTEM 70 IL 1001E ORIG 197 353 509 665 821 977 1133										ITL# 111 13  Flat 4 Insert 2										
CORBIN/03 KEY-IN-KNOB ORIG S1,26,5 146 271 396 521 646 771										ITL# 112  Flat 4 Insert 3										
CORBIN/04 LARGE PIN NEW Z CLASS, PRE SYSTEM 70 250 406 562 718 874 1030 1186										ITL# 113 14 <i>WBC write back</i> Flat 4 Insert 2										
CORBIN/05 BZ PUSH KEY IL A1001EH ORI 172 297 422 547										ITL# 121  Flat 4 Insert 2										
CORBIN/06 Z CLASS, SYSTEM 70 IL 100G 250 406 562 718 874 1030 1186										ITL# 122 X06 <i>WBC</i> Flat 4 Insert 2										
CORBIN/07 S CLASS RIM CYLINDER ORIG 8618C 197 322 447 572 697										ITL# 123  Flat 3 Insert 3										
CORBIN/08 LEVER LOCKERS 940 895 850 805 760 715										ITL# 125  Flat 2 Insert 2										

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10									
CORBIN/09										ITL# 126					13	Flat 4					Insert 2								
CORBIN 59,60,62 MK ONLY																													
ORIG 26,66,77,9																													
197	353	509	665	821	977					341	326	311	296	281	266	251	236	221	206										
CORBIN/10										ITL# 127					MK13					Flat 4					Insert 2				
X1-67-6																													
ORIG 27,67,77,9																													
197	353	509	665	821	977					329	314	299	284	269	254	239	224	209	194										
CORBIN/CCL/01										ITL# 109					X49					Flat 3					Insert 2				
2A																													
IL 1000A ORIG																													
219	375	531	687	843	999					332	320	307	293	280	267	252	238	224	209										
CORBIN/CCL/02										ITL# 110										Flat 4					Insert 3				
C PIN-TUMBLER																													
IL 1000B																													
172	297	422	547	672						249	237	223	210	196	181	167	152	143											
CORBIN/CCL/03										ITL# 114										Flat 3					Insert 2				
WAFER "CAT" STANDARD DISC HPC 1,3,5																													
IL 1000V ORIG																													
156	251	346	441	536	631					250	219	188																	
CORBIN/CCL/04										ITL# 115										Flat 3					Insert 2				
WAFER PADLOCK SMALL DISC BOK1																													
IL 1001K ORIG																													
125	219	313	407	501						202	182	162	142																
CORBIN/CCL/05										ITL# 116					12	Flat 2					Insert 2								
4R-9R DIRECT DIGIT TIP TO BOW SMALL PIN																													
IL 100F ORIG 8																													
172	297	422	547	672	797	922				277	265	252	238	225	212	197	182	169											
CORBIN/CCL/06										ITL# 117					12	Flat 3					Insert 2								
B4R-4T DIRECT DIGIT - SMALL PIN - TIP TO BOW																													
IL 1003A,1003B,																													
172	297	422	547	672	797	922				281	269	256	244	231	219	206	194	181	169										
CORBIN/CCL/07										ITL# 118					CUTS Bow To Tip on ITL					Flat 3					Insert 2				
B4R NEW (SMALL PIN) DIRECT BITTING PREFIXES:4T,5T,6T,7T																													
172	297	422	547	672	797	922				276	264	251	239	226	214	201	189	176	164										
CORBIN/CCL/08										ITL# 124					Flat 2					Insert 3									
BABY PIN X AND U *DEPTH 8 = .093 CAN NOT CUT, TOO DEEP*																													
ORIG 4196A,41																													
172	297	422	547	672						196	188	174	161	146	132	119	106												
CORBIN/CCL/09										ITL# 501					Flat 2					Insert 2									
172	297	422	547	672	797					332	320	307	293	280	267	252	238	224	209										
CORBIN/CCL/10										ITL# 502					Flat 2					Insert 3									
BABY PIN BU * DEPTH 8 = .093 TOO DEEP TO CUT																													
219	344	469	594	719						196	188	174	161	146	132	119	106												
CORTINA(FORD)										ITL# 74					Flat 3					Insert 2									
FT 1001-2001																													
F81K DL CE1																													
205	303	401	499	597	695	793	891	989	1087	285	255	225																	

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10																					
<b>COUCH</b>										ITL# 128					Flat 1					Insert 2																					
SMALL LETTER BOX																																									
IL 1225BL																																									
87	142	197	252	307						225	200	175	150																												
<b>COURIER(FORD)/01</b>										ITL# 129		XF62		FGK193		Flat 3		Insert 2																							
002-989																																									
X36 DL MZ11																																									
178	288	398	508	618						244	220	197	173																												
<b>COURIER(FORD)/02</b>										ITL# 130		XF63		FGK204		Flat 3		Insert 1 A																							
1500-2499 5000-6099																																									
X4,X5 DL MZ4																																									
850	752	654	555	457	358	260				307	276	244																													
<b>CRAFTSMAN/01</b>										ITL# 131										Flat 3	Insert 2																				
DL																																									
IL C1096LN																																									
255	395	535	675	815	955					272	257	242	217	202																											
<b>CRAFTSMAN/02</b>										ITL# 132										Flat 3	Insert 2																				
KE & T																																									
IL C1096CN																																									
275	430	585	740	895	1050					318	300	282	264	246	228	210	192	174	156																						
<b>CRAFTSMAN/03</b>										ITL# 93										Flat 3	Insert 2																				
LL TOOL BOX																																									
IL 1096EN																																									
139	232	325	418	511						250	220	190																													
<b>CRICKET(CHRYSLER)/01</b>										ITL# 31										Flat 3	Insert 2																				
H 0001-5143																																									
DL MS12																																									
85	185	285	385	485	585					273	263	243	223																												
<b>CRICKET(CHRYSLER)/02</b>										ITL# 32										Flat 3	Insert 2																				
SL 5001-7000																																									
X16 DL 771CH																																									
105	198	291	384	477	570	663	756	849	942	315	290	265	240																												
<b>DAIHATSU</b>										ITL# 196		XF88		FGK266		Flat 5		Insert 2																							
D0001-2000																																									
X174																																									
98	181	264	347	429	512	595	677				327	299	272	244																											
<b>DEXTER/01</b>										ITL# 141		15								Flat 4	Insert 2																				
PRE-1969																																									
216	371	526	681	836	991					325	305	285	265	245	225	205	185																								
<b>DEXTER/02</b>										ITL# 142		16								Flat 4	Insert 2																				
NEW KEY-IN-KNOB																																									
IL D1054K ORIG																																									
216	371	526	681	836	991					320	305	290	275	260	245	230	215	200	185																						
<b>DEXTER/03</b>										ITL# 143										Flat 3	Insert 2																				
PIN-TUMBLER																																									
IL D1054KD ORI																																									
180	305	430	555	680						325	305	285	265	245	225	205	185																								
<b>DEXTER/04</b>										ITL# 144										Flat 3	Insert 2																				
WAFER																																									
IL D1098X ORIG																																									
150	243	336	429	522	615					248	232	216	200	184																											



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>DIEBOLD/01</b> ITL# 139										Flat 1 Insert 3										
FIXED 0 025" DROP DEPTH 1=0 370" 2=0 345"																				
915	850	785	720	655	590	525	460	395	330	370	345	320	295	270	245	220	195	170		
<b>DIEBOLD/02</b> ITL# 140										Flat 1 Insert 3										
VARIABLE DROP DEPTH 1=0 375" 2=0 340"																				
IL D1054K																				
915	850	785	720	655	590	525	460	395	330	375	340	309	278	247	216	185	158			
<b>DKW/01</b> ITL# 145										Flat 3 Insert 2										
1-67135																				
63 IL 63 ORIG 6																				
155	250	345	440	535	630	725	820	915	1010	263	248	233	218							
<b>DKW/02</b> ITL# 441										Flat 3 Insert 2										
D,E,F,V,Z																				
62V0 IL 62V0																				
125	235	345	455	565	675	785	895	1005	1115	270	255	240	225	210						
<b>DOM SMALL PIN</b> ITL# 503										Flat 2 Insert 2										
126 224 323 421 520										264 248 232 217 201 185 169										
<b>DOMINION</b> ITL# 147										Flat 4 Insert 2										
280 436 592 748 904 1060										320 305 290 275 260 245 230 215 200										
<b>DONNER/01</b> ITL# 148										Flat 4 Insert 2										
LOCKSET																				
IL 1176																				
225	380	535	690	845	1000					329	315	301	287	273	259	245	231	217	203	
<b>DONNER/02</b> ITL# 149										Flat 3 Insert 2										
PADLOCK L-1																				
ORIG 1K																				
123	258	393	528	663	798					281	271	251	231	211	191	185				
<b>DURO-STEEL</b> ITL# 479										Flat 3 Insert 2										
-																				
125	220	315	410	505	600					250	230	210	190	170						
<b>EAGLE</b> ITL# 504										Flat 4 Insert 2										
LARGE PIN .179																				
IL 1014																				
179	304	429	554	679	804					320	302	284	266	248	230	212	194	176	158	
<b>EAGLE/01</b> ITL# 151 21										Flat 4 Insert 2										
LARGE PIN-TUMBLER																				
IL 1014A																				
197	352	507	662	817	972					320	302	284	266	248	230	212	194	176	158	
<b>EAGLE/02</b> ITL# 152										Flat 4 Insert 2										
PADLOCK PIN-TUMBLER																				
IL X1014F																				
208	363	518	673	828						320	302	284	266	248	230	212	194	176	158	
<b>EAGLE/03</b> ITL# 153 20										Flat 3 Insert 3										
LONG																				
IL 1014DX																				
202	357	512	667	822	977					276	258	240	222	204	186	168	150	132	114	

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>EAGLE/04</b>																				
REGULAR WAFER																				
IL 1014J																				
152	245	338	431	524						244	214	184								
<b>EAGLE/05</b>																				
SHORT																				
IL 11625B																				
172	297	422	547	672						276	258	240	222	204	186	168	150	132	114	
<b>EAGLE/06</b>																				
WAFER A36A																				
IL 1014JS,750																				
90	183	276	369	462						240	225	210	195	180						
<b>EAGLE/07</b>																				
ALL-STEEL																				
IL 1014																				
156	281	406	531	656	781						307	289	271	253	235	217	199	181	163	
<b>ELGIN/01</b>																				
DL																				
IL E1096LN																				
255	394	533	672	811	950						272	257	242	227	212					
<b>ELGIN/02</b>																				
KE																				
IL E1096CN																				
280	435	590	745	900	1055						318	300	282	264	246	228	210	192		
<b>EMHART SYSTEM 70</b>																				
SEE CORBIN 70																				
250	406	562	718	874	1030	1186					339	311	283	255	227	199				
<b>ENGLISH CAM LOCKS</b>																				
6001-6200 60001-60200 ETC																				
L192 DL LF1,LF																				
125	218	311	404	497	590						225	210	170							
<b>EURO TRUCK</b>																				
MACK VOLVO MARINE MAGIRUS E-M-N-U-01-100,HG140N-189N																				
B69D,M67K IL B																				
256	386	516	646							256	246	226	207	187						
<b>EVINRUDE</b>																				
1																				
125	220	315	410	505	600						250	230	210	190	170					
<b>EVINRUDE-JOHNSON</b>																				
-																				
IL 1098X																				
155	250	345	440	535	630						249	217	185							
<b>FALCON</b>																				
-																				
IL 1114A																				
70	220	370	520	670	820	970					319	306	294	281	269	256	244	231	219	206
<b>FALCON (WEISER)</b>																				
-																				
F54A IL A1054																				
237	393	549	705	861	1017	1173					315	297	279	261	243	225	207	189	171	153

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10					
FANAL(MEXICO)										ITL# 168										Flat 4		Insert 2			
119 IL 1119 DL																									
200	360	520	680	840	1000	1160				315	285	255	225	195											
FIAT/01 YUGO										ITL# 169 XF91										FGK173		Flat 6		Insert 2	
1501-1900 3501-3900 DOOR & TRUNK 67-85																									
DL SF5,SF6																									
217	327	437	547	657	768				272	240	209														
FIAT/02-ALPHA ROMEO										ITL# 13 XF93										FGK174		Flat 6		Insert 2	
2100-2307 4100-4307 6100-6307 8100-8307 67+																									
F72Y,F72X,F72																									
221	320	418	517	615				268	244	220															
FIAT/03 IGN										ITL# 172 XF92										FGK171		Flat 3		Insert 1 A	
E1-E78 F1-F78 G1-G78 H1-H78 1-78 1965-69																									
F69E,F69F,F69																									
543	439	335	220				266	236	207																
FIAT/04										ITL# 173												Flat 3		Insert 2	
D & S 114-399 614-899																									
R63S,63S IL R6																									
450	550	650	750	850	950	1050	1150				275	250	225												
FIAT/05										ITL# 174												Flat 3		Insert 2	
FR 1-2000																									
F81E DL DM9																									
150	290	430	570	710	850	990	1130				265	245	225	205	185	165									
FIAT/06										ITL# 176												Flat 3		Insert 3	
A 361-370																									
140	248	356	464	572	680	788	896	1004	1112	100	115	135													
FIAT/07										ITL# 177												Flat 2		Insert 2	
A,B,C,D 1-125																									
330	425	520	615	710	805	900	995	1090	1185	250	230	210													
FIAT/08										ITL# 178												Flat 3		Insert 2	
E,F,G,H 1-78																									
410	515	620	725	830	935	1040	1145				265	235	205												
FIAT/09										ITL# 179 XF95												Flat 3		Insert 2	
Y7001-9956,LADA(USSR),79+																									
189	311	433	555	677	799				276	248	220	193													
FIAT/10										ITL# 180 XF90										FGK172		Flat 3		Insert 2	
A501-A3278 A00000-44444 DIRECT DIGIT IGN 67+ CURTIS DP 1,2,3,4,5=REED 0,9,8,4,6																									
F74T SP9																									
146	250	354	459	563				272	220	200	240	260													
FIAT/11										ITL# 181 XF94										FGK172		Flat 3		Insert 2	
X3301-4886,STRADA 79-80 (CURTIS 1,2,3,4,5 = REED 0,9,8,4,6)																									
X109 IL FT43 DL																									
146	250	354	459	563	667				272	220	200	240	260												
FIAT/12										ITL# 20 XF96												Flat 3		Insert 2	
K SERIES ALL LOCKS (USA) STRATA 1981+ 0=0,9=1,8=2,4=3,6=4																									
146	250	354	459	563	667				289	238	219	258	278												

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10			
FIAT/13										ITL# 179 XF95										Flat 3		Insert 2	
Y SERIES-LADA 1979+																							
X113																							
189	311	433	555	677	799						276	248	220	193									
FIESTA										ITL# 82										Flat 3		Insert 2	
TC 1-1000																							
X20 DL XL6																							
75	164	216	310	409	461	545	645	744	796	320	295	270	245										
FLORENCE										ITL# 183										Flat 1		Insert 3	
LETTER BOX 1-750																							
DL 1225																							
28	83	138	193	248						230	200	170	140	110									
FORD/01										ITL# 184 22										Flat 3		Insert 3	
1935 TO 1951																							
SSH ORIG 9026																							
170	295	420	545	670						195	175	155	135	115									
FORD/02										ITL# 185 23										Flat 3		Insert 2	
FE,FL,FN,FZ 1952 TO 1964																							
127DP ORIG 95																							
200	325	450	575	700						240	220	200	180	160									
FORD/03										ITL# 186 24										Flat 4		Insert 1 A	
1965 AND UP																							
167FD																							
803	653	503	353	203						340	320	300	280	260									
FORD/04										ITL# 187 X38										Flat 3		Insert 3	
LM (LINCOLN)																							
125D ORIG 901																							
142	267	392	517	640						243	230	218	205	193	180	167	155	142	130				
FORD/05										ITL# 188 X56										Flat 3		Insert 1 A	
1984 AND UP DOUBLE SIDES 10 DISCS																							
L184F IL L184F																							
1033	941	848	756	663	571	478	386	293	201	352	326	300	274	248									
FORT/01										ITL# 189										Flat 3		Insert 2	
3000																							
KL54G KN54G																							
130	225	320	415	510	605						250	235	220	205	190								
FORT/02B										ITL# 190										Flat 3		Insert 2	
5000 DOUBLE BITTED BOTTOM 6 WAFER																							
K757																							
218	405	592								295	265	235											
FORT/02T										ITL# 191										Flat 3		Insert 2	
5000 DOUBLE BITTED TOP 6 WAFER																							
K757																							
125	312	499								295	265	235											
FRAIM										ITL# 192										Flat 3		Insert 2	
PADLOCKS #424 & 425																							
IL 1098X																							
150	243	336	429	522	615						250	235	220	205	190								
GENERAL										ITL# 193 X8										Flat 4		Insert 3	
181	343	504	665	827						315	295	276	256	236	216	197	177	157	138				

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10						
GENERAL MOTORS/01 1935-1965										ITL# 194					Flat 3					Insert 2						
107	200	293	386	479	572							250	225	200	175											
GENERAL MOTORS/02 1965 AND UP										ITL# 195 25					Flat 3					Insert 2						
109	201	293	385	477	569							248	223	198	173	148										
GENERAL MOTORS/03 J,K CHEVROLET CAVALIER 91+,GRAND AM,ACHIEVA,SKYLARK 92+										ITL# 514					Flat 3					Insert 2						
413	512	610	709	807	905							347	324	300	277	253										
GENERAL MOTORS/04 R000-999,T000-394 SATURN 92+										ITL# 100					Flat 4					Insert 1 A						
757	665	573	481	389	297	205						340	315	290	265											
GENERAL MOTORS/05 AA00 7N45 B82EZ P1102										ITL# 519					Flat 3					Insert 1						
1033	941	849	757	665	573	481	389	297	205			315	290	265	240											
GEO METRO/STORM,ISUZU U0001 2000 N5001-7000 X184 IL B65 ORI										ITL# 196 XF88					FGK266					Flat 5					Insert 2	
98	181	264	347	429	512	595	677					327	299	272	244											
GEO PRIZM G001-G/NP X192 IL B72										ITL# 196 XF88					FGK266					Flat 5					Insert 2	
98	181	264	347	429	512	595	677					327	299	272	244											
GEO TRACKER 18100-19299 X180 IL B69										ITL# 507 XF89					FGK271					Flat 4					Insert 2	
98	181	264	347	429	512	595	677					315	299	284	268	252										
GERMAN FORD/01 OA 1-210 F76M DL 62FD										ITL# 197					Flat 3					Insert 2						
130	250	370	490	610	730							275	255	235												
GERMAN FORD/02 EL & ER 1-195 PN 101-295										ITL# 198					Flat 3					Insert 2						
130	250	370	490	610	730	850	970	1090				275	255	235												
GOAL 184G DL GL1										ITL# 199 X30					Flat 4					Insert 2						
209	374	539	705									331	307	283	260	236	213	189								
GUARD DL GR1										ITL# 200					Flat 3					Insert 2						
150	280	410	540	670	800							275	260	245	225	195	170									
HAFELE(DRAWER LOCK) AXO IL H1122M DL 1										ITL# 201					Flat 3					Insert 2						
110	205	300	395	490								240	218	196												

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10	
<b>HARLOCK</b>																					
ITL# 202										Flat 4 Insert 2											
IL X1014F																					
216	371	526	681	836	991						322	304	286	268	250	232	214	196	178		
<b>HILLMAN MINX AUTO</b>																					
ST 801-998(04-04-044)										Flat 3 Insert 2											
64T R64T DL 61																					
160	260	360	460	560	660	760	860	960	1060	243					228	213					
<b>HON</b>																					
ITL# 204										Flat 3 Insert 2											
FILE CABINET																					
R22B IL 1003M																					
195	320	445	570	695	820						280	262	244	226	208	190	172				
<b>HONDA/01</b>																					
125647-866541 600 SEDAN 70-71										Flat 3 Insert 2											
H80,H81,H82,H8																					
79	177	276	374	472	571						236	217	197	177							
<b>HONDA/02</b>																					
2001-4949 CIVIC IGN 70 - 76										Flat 3 Insert 2											
X51 DL NE21																					
98	169	280	370	461	551	642	732	284					264	244	224						
<b>HONDA/03</b>																					
111111-444444 DOOR & TRUNK 73-76 DIRECT DIGIT / CUT TIP TO BOW										Flat 3 Insert 2											
X44 DL HD44,H																					
98	197	295	394	492	591	280					260	240	221								
<b>HONDA/04</b>																					
ITL# 205 XF72										Flat 3 Insert 2											
1001-1700 2001-2700																					
X129,X71,X130																					
98	197	295	394	492	591	276					244	213									
<b>HONDA/05</b>																					
ITL# 211 XF73										Flat 3 Insert 2											
3001-4481 ACCORD1982+, ACURA 86+																					
X128,X181,X165																					
98	197	295	394	492	591	689	787	276					244	213							
<b>HONDA/06</b>																					
ITL# 510 XF74										Flat 3 Insert 2											
5001-8442, 1988+, ACURA 1990+																					
X182,X195,X214																					
106	191	276	360	445	530	614	699	307					295	282	269	257	244				
<b>HONDA/CYCLE/01</b>																					
ITL# 208										Flat 3 Insert 2											
1111-2555																					
H69T,H69TR DL																					
138	276	414	552	690	828	145					175	205									
<b>HONDA/CYCLE/02</b>																					
ITL# 209 MC30										Flat 3 Insert 2											
101-820 121-840 1977+																					
X84 DL HD63,H																					
98	197	295	394	492	276					256	236	217									
<b>HONDA/CYCLE/03</b>																					
ITL# 212 MC32										Flat 3 Insert 2											
T,3,4,5,6 DIRECT DIGIT USE LAST 3 #'S OF CODE 62-74																					
H76H,H76WR D																					
118	256	394						209	193	177	161										
<b>HONDA/CYCLE/04</b>																					
ITL# 213 MC31										Flat 3 Insert 2											
00007-99998 DIR DIG MID 70'S 0/5,4/9,3/8,2/7 = 1,2,3,4																					
X57,X58 IL HD7																					
98	197	295	394	492	276					217	236	256	276	217	236	256					

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10		
<b>HONDA/CYCLE/05</b> ITL# 214 MC37										FGK206					Flat 3		Insert 2					
A & B 01-99 1983+ USE LAST 3 NUMBERS OF CODE																						
X84 IL HD74 DL																						
98 197 295 394 492										276 244 213												
<b>HONDA/CYCLE/06</b> ITL# 215 MC33										FGK196					Flat 3		Insert 2					
T 2-6-7-8-9 DIR DIG 1962-74 2,6,7,8,9 = 0,1,2,3,4																						
H76G,H76K,H76																						
118 276 433										224					209 193		177 166					
<b>HUBER</b> ITL# 216 X39															Flat 4		Insert 2					
LARGE PIN DIRECT DIGIT BOW TO TIP																						
IL 1020																						
195 360 525 690 855										322 308 294 280 266					252 238		224 210		196			
<b>HUCK-PIN</b> ITL# 217															Flat 4		Insert 2					
-																						
250 406 562 718 874 1030 1186										311 292 273 254 235					216 197		178					
<b>HUDSON/01</b> ITL# 218															Flat 3		Insert 2					
HC																						
IL 1122																						
130 223 316 409 502 595										247 227 207 187 167												
<b>HUDSON/02</b> ITL# 219 26															Flat 3		Insert 2					
L OLD H MAIL BOX																						
R22B																						
191 316 441 566 691 815										282 262 246 228 210					192 174							
<b>HUDSON/03</b> ITL# 222															Flat 3		Insert 2					
5 PIN																						
R22B																						
191 316 441 566 691 816										290 272 254 236 218					200 182							
<b>HUDSON/04</b> ITL# 223															Flat 3		Insert 2					
BH																						
22B																						
190 315 440 565 690 815										280 262 244 226 208												
<b>HUDSON/05</b> ITL# 224 X32															Flat 4		Insert 2					
K 125-173 T HANDLES ON PICK-UP CAMPERS FOR "X" ENTER 10																						
7NX IL 1122																						
125 222 319 416 513 610										250 230 210 190 170							190 170 220					
<b>HURD/01</b> ITL# 225															Flat 3		Insert 3					
1-50																						
IL 1125C																						
140 265 390 515 640										205 195 175 155 135 115												
<b>HURD/02</b> ITL# 226															Flat 3		Insert 2					
PADLOCK																						
IL 1125																						
140 265 390 515 640										230			210		180		150					
<b>HURD/03</b> ITL# 227															Flat 3		Insert 3					
#330A1 PADLOCK																						
IL 1125																						
140 265 390 515 640										230 217 205 192 180					167 155		142 130		117			
<b>HURD/04</b> ITL# 228															Flat 3		Insert 3					
-																						
IL 1125D OR.G																						
140 265 390 515 640										233 220 207 193 180 167 154 142 129												

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10		DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
HURD/05										ITL# 229	X38							Flat 3		Insert 3	
Y																					
IL 1125D ORIG																					
142	267	392	517	640	770						243	230	218	205	193	180	167	155	142	130	
HURD/06										ITL# 230								Flat 3		Insert 3	
T																					
IL 1125 ORIG 90																					
160	325	490	655	820	985						230	210	190	170	150	130	110				
HURD/07										ITL# 479								Flat 3		Insert 2	
WAFER																					
IL 1122A ORIG																					
125	220	315	410	505	600						250	230	210	190	170						
HURD/08										ITL# 184	22							Flat 3		Insert 3	
FORD 1935-51																					
IL 1125H ORIG																					
170	295	420	545	670							195	175	155	135	115						
HURD/09										ITL# 185	23							Flat 3		Insert 2	
FORD 1952-64																					
IL 1127DP ORIG																					
200	325	450	575	700							240	220	200	180	160						
HURD/10										ITL# 186								Flat 4		Insert 1 A	
FORD 1965 AND UP																					
IL 1167FD																					
803	653	503	353	203							340	320	300	280	260						
HURD/11										ITL# 187	X38							Flat 3		Insert 3	
LM(LINCOLN)																					
IL 1167FD ORIG																					
142	267	392	517	640							243	230	218	205	193	180	167	155	142	130	
HURD/12										ITL# 188								Flat 3		Insert 1 A	
FORD 84 AND UP																					
ORIG 184FD																					
1033	941	848	756	663	571	478	386	293	201		352	326	300	274	248						
HYUNDAI/01										ITL# 231	XF201				FGK262			Flat 3		Insert 2	
X0001-1000 EXCEL 1986+ SCOUPE 91+ Y1001-2000 SONATA																					
X160,X196 IL H																					
98	197	295	394	492	591	689	772				276	256	236	217							
HYUNDAI/02										ITL# 517	XF212				FGK276			Flat 3		Insert 2	
T0001-1000 ELANTRA 92+																					
X216 HY6																					
95	177	260	343	425	508	591	673				319	295	272	248							
ILCO/01										ITL# 232								Flat 3		Insert 2	
FN																					
IL 1054FN																					
277	433	589	745	901	1057						320	302	284	266	248	230	212				
ILCO/02										ITL# 233								Flat 3		Insert 2	
XR																					
IL 1154G																					
162	302	442	582	722							270	252	234	216	198	180	162				
ILCO/03										ITL# 234								Flat 3		Insert 2	
PADLOCK #324																					
IL B1054B																					
115	215	315	415	515	615						210	190	170	150							



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10					
ILCO/04										ITL# 235 27										Flat 3		Insert 2			
AH & F																									
IL X1054JK																									
162	287	412	537	662						270	252	234	216	198	180	162									
ILCO/05										ITL# 236										Flat 3		Insert 2			
DC																									
IL X1000F																									
260	400	540	680	820	960						325	308	290	272	254	236	218	200	182	164					
ILCO/06										ITL# 237										Flat 3		Insert 2			
CHALLENGER PADLOCK																									
IL 1054F																									
255	395	535	675	815	955						330	315	300	285	270	255	240	225	210						
ILCO/07										ITL# 238 55										Flat 3		Insert 2			
WAFER USE YALE																									
L1054 IL X0154																									
127	222	317	412	507	602						250	230	210	190	170										
ILCO/08										ITL# 239 28										Flat 4		Insert 2			
LARGE																									
X54K																									
277	433	589	745	901	1057						320	302	284	266	248	230	212	194	176	158					
ILCO/09										ITL# 240										Flat 4		Insert 2			
S																									
IL 1054A																									
160	285	410	535	660	785						275	260	245	230	215	200	185								
ILLINOIS										ITL# 192										Flat 3		Insert 2			
WAFER																									
IL 1043B ORIG																									
150	243	336	429	522	615						250	235	220	205	190										
ISUZU-GMC-TRUCK										ITL# 88 XF85										Flat 2		Insert 2			
ISUZU 85 UP GMC TRUCK A8001-9400																									
IL B53																									
118	236	354	472	591	709						325	297	270	242											
IVECO/01										ITL# 241										Flat 3		Insert 2			
1982+ TRUCK P/Z SERIES IGN ALSO FIAT,LANCIA,MAGIRUS,OM																									
IL 1V1																									
291	396	500	604	709						289	278	258	238	219											
IVECO/02										ITL# 242 XF99										Flat 3		Insert 2			
TRLNK 1982+P SERIES IGN																									
IL 1V1																									
291	396	500	604	709						289				238			219	258	278						
JAGUAR/01										ITL# 243 XF47										FGK220		Flat 3		Insert 2	
WR 2001 & XJS UP - SHORT SIDE 1 REG—,SIDE 2 BUTT AGAINST INSERT 2																									
X55 DL WB2																									
63	130	197	264	331	398	465	532	598	665	325	299	274	248												
JAGUAR/02										ITL# 244 XF49										FGK264		Flat 3		Insert 2	
K0001-1005 XJ6 1988+IGN/DR																									
X177,JA2																									
169	260	350	441	531	622	713	803	894	984	268	248	228	209												
JAGUAR/03										ITL# 135 XF40										FGK133		Flat 3		Insert 2	
FR-FZ-DAT-MAZ FH-FK-FM-VH																									
X1 DL MZ12																									
158	295	433	571	707						266	246	226	206	186	167										

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
JUNKUNC																				
AMERICAN LOCK																				
IL 1046																				
156	281	406	531	656	781					284	268	253	237	221	206	190	175			
KABA PEAKS /01										ITL# 506										
.140 A2 TIP REFERENCE																				
136	276	416	556	696	836					318	305	293	280	268	255	243	230	218	205	
KABA PEAKS /02										ITL# 278										
.140 A4, 6 PIN, TIP REFERENCE																				
136	276	416	556	696	836					318	297	276	255	234	213					
KABA PEAKS /03										ITL# 505										
.150 A2 TIP REFERENCE, I.C. ONLY																				
86	236	386	536	686	836					318	305	293	280	268	255	243	230	218	205	
KABA PEAKS /04										ITL# 279										
150 A2, 7 PIN, TIP REFERENCE, I.C. ONLY																				
86	236	386	536	686	836	986				318	305	293	280	268	255	243	230	218	205	
KABA PEAKS /05										ITL# 277										
150 A4, 6 PIN, TIP REFERENCE, I.C. ONLY																				
86	236	386	536	686	836					318	297	276	255	234	213					
KABA PEAKS /06										ITL# 276										
.150 A4, 7 PIN, TIP REFERENCE, I.C. ONLY																				
86	236	386	536	686	836	986				318	297	276	255	234	213					
KAWASAKI/01										ITL# 247										
155-164 685 689 701 705										FGK231										
X23,X24 DL KW																				
158	256	354	453							276	256	236	217							
KAWASAKI/02										ITL# 248										
265-279										FGK233										
X35																				
118	236	354							205	185	165	146								
KAWASAKI/03										ITL# 252										
SER 121-124 140-143 150-154 235-240 321-330 521-525 669-676										FGK230										
KW1,KW2																				
244	343	441							201	161										
KAWASAKI/04										ITL# 253 MC55										
401-450 901-925 1973+ **MOVE DEPTHS ONE STEP UP WHEN USING REED CODES										FGK234										
X65,X66 DL YH4																				
157	256	354	453	555						236	217	197								
KAWASAKI/05										ITL# 256 MC53										
751-795 73-78, MOVE DEPTHS ONE STEP UP WHEN USING REED CODES										FGK232										
X104																				
98	197	295	393	492	591					280	260	240	220							
KAWASAKI/06										ITL# 257 MC54										
801-845 MID 70'S MOVE DEPTHS ONE STEP UP WHEN USING REED CODES										FGK235										
X103 ILKA13																				
98	209	319	429							258	238	218	199							

SP1 SP2 SP3 SP4 SP5 SP6 SP7 SP8 SP9 S10

DP0 DP1 DP2 DP3 DP4 DP5 DP6 DP7 DP8 DP9 D10

**KAWASAKI/07**

ITL# 258 MC52

FGK244

Flat 3

Insert 2

A,G,N 01 35 70 78 MOVE ONE STEP UP WHEN USING REED CODES

X90,X91

316 413 512 610 709 807

295 265 236

**KAWASAKI/08**

ITL# 259 MC50

FGK236

Flat 3

Insert 2

KZ &amp; Z 5000-5999 1979+

X103 IL KA14

98 197 295 393 492 591

258 238 218 199

**KAWASAKI/09**

ITL# 260 MC51

FGK239

Flat 3

Insert 2

A,B 111111-444444 DIRECT DIG TIP TO BOW! 1979+

105,106 IL KA11

315 413 512 610 709 807

295 276 256 236

**KEIL/01**

ITL# 261 X17

Flat 4

Insert 2

STD

IL 1079B

245 405 565 725 885

320 302 284 266 248 230 212 194 176 158

**KEIL/02**

ITL# 262

Flat 1

Insert 3

R &amp; H

IL 1270C

103 153 203 253 303 353

283 249 217 191 160

**KENNEDY**

ITL# 263

Flat 3

Insert 2

K TOOL BOX

1000X

140 235 330 425 520 615

245 230 215 200 185

**KWIKSET/01**

ITL# 264

Flat 8

Insert 2

OLD

IL 1176 DL 176

247 397 547 697 847

328 297 266 235

**KWIKSET/02**

ITL# 265 31

Flat 8

Insert 2

NEW, CORBIN 80 &amp; RUSSWIN 751

54KS IL 1176

247 397 547 697 847 997

328 305 282 259 236 213 190

**LOCKWOOD/01**

ITL# 266 28

Flat 4

Insert 2

LARGE

35 IL 1004 DL 0

277 433 589 745 901

320 302 284 266 248 230 212 194 176 158

**LOCKWOOD/02**

ITL# 267 32

Flat 3

Insert 2

SMALL

IL 1004M

185 310 435 560 685 810

270 252 234 216 198 180 162

**LOCKWOOD/03**

ITL# III 33

Flat 4

Insert 2

SECTIONAL

IL A1015L

277 433 589 745 901 1057

338 320 302 284 266 248 230 212 194 176

**LORI/01**

ITL# 268

Flat 4

Insert 2

3000

IL X1014F ORIG

216 371 526 681 836 991

284 248 212

**LORI/02**

ITL# 269

Flat 4

Insert 2

3200

ORIG L200

217 372 527 682 837 992 1147

284 248 212

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>LORI/03</b>																				
1700 & P WAFER																				
ORIG 1700																				
152 245 338 431 524 617										241 211 181										
<b>LORI/04</b>																				
4200																				
ORIG L110																				
216 372 528 684 840 996										318 300 282 264 246 228 210 192 174										
<b>LORI/05</b>																				
SEGAL COMMON KEYWAY																				
OR G L210																				
248 404 560 716 872 1028										318 300 282 264 246 228 210										
<b>LORI/06</b>																				
SCHLAGE C KEYWAY																				
ORIG L130																				
231 387 543 699 855 1011										318 300 282 264 246 228 210 192 174										
<b>LORI/07</b>																				
YALE 8 KEYWAY																				
ORIG L120																				
198 363 528 693 858 1023										318 300 282 264 246 228 210 192 174										
<b>LORI/08</b>																				
1400 MAIL BOX PIN-TUMBLER																				
ORIG L150																				
156 281 406 531 656 781										270 257 245 232 220 207 195 182 170										
<b>LOWE &amp; FLETCHER</b>																				
FILE CABINET																				
DL LF14 ORIG L																				
70 155 240 325 410 495										200 170 140										
<b>LOXEM</b>																				
601-1100																				
98X IL 1908X																				
156 250 344 438 532 626										250 235 220 205 190										
<b>LUSTER LINE/01</b>																				
PADLOCK																				
ORIG 634																				
140 260 380 500 620 740										280 255 230 205 180										
<b>LUSTRE LINE/02</b>																				
KEY-IN-KNOB BLANKS ILCO #1176																				
T80V DL ZU1																				
170 360 550 740 930 1120										310 290 270 250 230 210 190										
<b>LUV(GENERALMOTORS)/02</b>																				
C 6001-7042																				
X54 IL DC1 DL																				
98 197 296 394 492 591										276 256 236 217										
<b>LYON</b>																				
7L																				
IL 1303																				
157 212 267 322 377										300 275 250 225 200 175										
<b>MASTER/01</b>																				
#1K &77K 15 17 81																				
IL 1092,1092V D																				
187 312 437 562 687										272 257 241 226 210 195 179 164										

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
MASTER/02 L,N,P,S,T IL 1092B ORIG 132 257 382 507										ITL# 288 34  Flat 4 Insert 3										
MASTER/03 #19 IL 1092H DL MA 218 374 530 686 842 998										ITL# 289 X02  Flat 7 Insert 2										
MASTER/04 150/60 LARGE  150 279 408 537 666 795										ITL# 290  Flat 4 Insert 2										
MAZDA/01 1500-2499 3500-4600 5000-6100 TRUCK R100,1200,FORD COURIER P-UPS X4,X5 DL HZ4,H 850 752 654 555 457 358 260										ITL# 130 XF63 FGK204 Flat 3 Insert 1 A										
MAZDA/02 002-989 FORD COURIER 70-73 X36 DL MZ11 178 288 398 508 618										ITL# 129 XF62 FGK193 Flat 3 Insert 2										
MAZDA/03 M 001-1100 COSMO X60 DL MZ14 98 197 295 394 492 591										ITL# 285 XF80 FGK131 Flat 3 Insert 2										
MAZDA/04 2500-2999 3500-4600 3000-3499 5000-6100 70-82 IF CUT ARE 1,3,5 CONVERT TO 1,2,3 X26,X27 IL MZ9, 811 713 614 516 417 319 220										ITL# 294 XF64 FGK205 Flat 3 Insert 1 A										
MAZDA/05 6500-7733 1982+ X131,X178,X199 811 713 614 516 417 319 220										ITL# 295 XF65 FGK240 Flat 3 Insert 1 A										
MAZDA/06 11111-44444 DIRECT DIGIT P-UP GAS CAP H80 DL HD8 98 197 295 394 492										ITL# 296 FGK192 Flat 3 Insert 2										
MAZDA/07 10100-12099 X188,X201,X200 98 181 264 347 429 512 595 677 760 843										ITL# 297 XF68 FGK272 Flat 3 Insert 2										
MAZDA/08 FH & VH 0001-3948 X1 DL MZ12 158 295 433 571 707										ITL# 135 XF40 FGK133 Flat 3 Insert 2										
MCKINNEY PADLOCK IL 1098X 150 243 336 429 522 615										ITL# 192  Flat 3 Insert 2										
MEDECO/01 10-0-11  244 414 584 754 924 1094										ITL# 298  Flat 1 Insert 3										
										266 236 206 176 146 116										

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10						
MEDECO/02 60-010(4 DEPTHS ONLY)										ITL# 299		X03				Flat 1		Insert 3								
216	386	556	726	896											206	176	146	116								
MEDECO/03 BI-AXIAL										ITL# 300						Flat 1		Insert 2								
213	275	383	445	553	615	723	785	893	955			272	247	222	197	172	147									
MEDECO/04 EXTENDED SPACES FOR MEDECO/3										ITL# 301						Flat 1		Insert 3								
1063 1125																										
MEDECO/05 LEVEL II HALF STEP DROP USE MEDECO PIN KIT # K-10 CLEAN BURRS										ITL# 302						Flat 1		Insert 3								
244	414	584	754	924	1094											265	250	235	220	205	190	175	160	145	130	115
MERCEDES/01 HD-HF-HM-HZ-ND-NF-NM-NZ M79S,M79T,M79										ITL# 303		XF30		FGK188		Flat 3		Insert 2								
105	195	285	375	465	555	645	735	825	915			284	264	244	224											
MERCEDES/02 KA,B,N,V,W & N 1-100 201-350 #2 IS DEEPEST CUT *WIDEN SPACE 5 M68E,M63E,RM										ITL# 304		XF32		FGK144		Flat 3		Insert 2								
148	267	400	518	685											226	196	218	236	252							
MERCEDES/03 HU,HY,NU,NY, 1977+ X82,X83										ITL# 62		XF33		FGK212		Flat 3		Insert 2								
107	189	272	354	437	520	602	685	768	850			327	303	280	256											
MERCEDES/04 D11115-D51111 MID 60'S IGNITION DIR DIG BOW TO TIP #1 IS DEEPEST CUT M68 IL H63N										ITL# 306		XF31		FGK112		Flat 3		Insert 2								
150	280	410	540	707											212	232	252	272	285							
MERKUR 001-1859 GERMAN FORD XR4TI SCORPIO '85+ TX SAME CUT BOTH SIDES X86 IL FC7 DL C										ITL# 307		XF13		FGK254		Flat 3		Insert 2								
79	174	224	319	414	464	559	657	753	803			325	301	278	254											
MG/02 F11111M-F77777M DIRECT DIGIT X12 DL NE22										ITL# 309						Flat 3		Insert 2								
94	199	303	407	512	610											181	197	213	228	244						
MG/03 NH 2001-3000 M81G DL UN2										ITL# 76		XF42				Flat 3		Insert 2								
160	255	350	445	540	635	730	825	920	1015			314	289	264	239											
MIAMI-CAREY LETTER BOX MH										ITL# 310						Flat 3		Insert 2								
200	320	440	560	680	800											280	262	244	226	208	190	172				
MITSUBISHI FUSO 8100-9113										ITL# 518		XF213		FGK280		Flat 3		Insert 1 A								
949	850	752	654	555	457	358	260											307	276	244						

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>mitsubishi/01</b>																				
E 7001-7700 LASER, COLT, ECLIPSE, MIRAGE, GALANT, TALON, VISTA WAGON																				
X176 IL MIT1, MI																				
98	181	264	347	430	513	596	679			323	296	268	241							
<b>mitsubishi/02</b>																				
30010-32009 MIRAGE 93+																				
X224																				
98	181	264	347	429	512	595	677			315	299	284	268	252						
<b>MOPED</b>																				
111110-555550																				
B69K DL SR61N																				
140	245	350	455	560						165	185	205	225	240						
<b>NATIONAL/01</b>																				
NCR CASH REG & TELR E SERIES "RESET" & "READ"																				
N20, 20H ORIG																				
172	297	422	547	672	797					270	256	242	228	214	200	186	172	158		
<b>NATIONAL/02</b>																				
LARGE PIN TUMBLER MEDALIST																				
IL R1064D																				
250	406	562	718	874						304	291	279	266	254	241	229	216	204	191	
<b>NATIONAL/03</b>																				
N9M																				
IL 1332																				
98	148	198	248	298						300	275	250	225	200	175					
<b>NATIONAL/04</b>																				
WAFER																				
IL 1069, 1069E																				
156	249	342	435	528	621					1	2	3	4							
<b>NATIONAL/05A</b>																				
C101-575 FILE CABINET 0 125" SPACING																				
IL 1064AL																				
546	671	796	921	1046	1171					270	257	245	232	220	207	195	182	170		
<b>NATIONAL/05B</b>																				
C101-575 FILE CABINET 0.140" SPACING																				
IL 1064AL																				
546	686	826	966	1106						270	257	245	232	220	207	195	182	170		
<b>NATIONAL/06</b>																				
CASH REGISTER N20 & N20H																				
IL X1000FR																				
165	290	415	540	665	790					277	265	252	238	225	212	196	182	169	157	
<b>NATIONAL/07</b>																				
CASH REGISTER																				
IL X1000FR																				
297	422	547	672	797	922					265	252	240	227	202	190	177	165	152		
<b>NATIONAL/08</b>																				
LOCKERS																				
IL 1332																				
146	198	250	302	354						300	275	250	225	200	175					
<b>NATIONAL/09</b>																				
LETTER BOX																				
150 290 430 570 710																				
use insert #3 for some																				
										270 257 245 232 220 207 195 182 170 157										

use insert #3  
for some

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10														
NATIONAL/10																																		
REGULAR PIN-TUMBLER																																		
IL 1069L ORIG																																		
150	290	430	570	710	850					ITL#	45	39					Flat 4	Insert 2																
NATIONAL/11																																		
CASH REGISTER WAFER																																		
IL L1054B																																		
155	248	341	434	527						ITL#	334					Flat 3	Insert 2																	
NISSAN/01																																		
FH & VH 1-3948																																		
X1 DL MZ12																																		
158	295	433	571	707						ITL#	135	XF40					Flat 3	Insert 2																
NISSAN/02																																		
M 4001-8000 N1001-2000 SUBARU F001-F1000 W001-1000																																		
X114,X115,X6,X																																		
158	256	354	453	551	650																													
NISSAN/03																																		
E601-900 1001-1150 3001-3150 5001-5900 6001-6900 9001-9150																																		
D80D,D80E,D80																																		
158	256	354	453	551																														
NISSAN/04																																		
X0001-X8000, Y0001-Y8000, 1982+ NISSAN/DATSUN																																		
X123,X124,X197																																		
114	197	280	362	445	528	610	693																											
NORTON CYCLES																																		
E,J,R 1-50 K/S 1-99																																		
S71B,V76T DL 6																																		
162	257	352	447	542																														
NORWALK/01																																		
PIN TUMBLER																																		
IL 1017B																																		
260	416	572	728	884																														
NORWALK/02																																		
84 LARGE PIN CORRUGATED TYPE(1017)																																		
IL 1017,1017A																																		
200	372	544	716	888	1060	1153	1231																											
NORWALK/03																																		
LARGE PIN SECTIONAL B,N,V,W																																		
IL 1017BL,1017																																		
190	362	534	706	878	1050																													
NSU/P																																		
A,N,W,X 1001-1420 N&W 1421-2000 W7001-7645 PLAIN SIDE																																		
DL HF18,HF26																																		
185	333	481	629	777	925	1073																												
NSU/S																																		
A,N,W,X 1001-1420 N&W 1421-2000 W7001-7645 SHOULDER SIDE																																		
DL HF18,HF26																																		
100	248	396	544	692	840	988	1136																											
OCTAGON																																		
KEY-IN-KNOB C																																		
ORIG 924C																																		
230	387	544	701	858	1015																													



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>OPEL/01</b> ITL# 328																Flat 3		Insert 2		
SC,SD,SL,SW,SW,DS,LSC 1-240																				
135	225	315	405	495	585	675	765	855	945	257		227		197						
<b>OPEL/02A</b> ITL# 330																Flat 3		Insert 2		
1-001 TO 4-345 & 5-001 TO 9-250 SHOULDER SIDE																				
155	275	395	515	635	755	875	995	1115						197	217	237	250			
<b>OPEL/02B</b> ITL# 329																Flat 3		Insert 2		
1-002 TO 4-345 5-001 TO 9-250 PLAIN SIDE																				
175	295	415	535	655	775	895	1015	1135										217	237	250
<b>OPEL/03</b> ITL# 331																Flat 3		Insert 2		
C 6001-7026																				
X54 DL SZ5																				
95	195	295	395	495	595	695	795	895	995	280	260	240	220							
<b>OPEL/04A</b> ITL# 333																Flat 3		Insert 2		
B,C,D,EC 1-380 SHOULDER SIDE																				
180	335	490	645	800	955	1110				262	237	212	187	170						
<b>OPEL/04B</b> ITL# 332																Flat 3		Insert 2		
B,C,D,EC 1-380 PLAIN SIDE																				
115	270	425	580	735	890	1045	1200			262	237	212	187	162						
<b>OPEL/05A</b> ITL# 445 XF03																Flat 3		Insert 2		
BB,CC,DD,EE,FF 501-3000 SHOULDER SIDE																				
180	336	492	648	804						255	232	209	186	172						
<b>OPEL/05B</b> ITL# 332																Flat 3		Insert 2		
BB,CC,DD,EE,FF 501-3000 PLAIN SIDE																				
115	270	425	580	735	890	1045	1200			262	237	212	187	162						
<b>OPEL/06</b> ITL# 336																Flat 3		Insert 2		
K & P 001-150																				
63L,63VG DL L6																				
155	274	393	512	631	750	869	988	1107		255	235	215	195							
<b>OPEL/07</b> ITL# 441																Flat 3		Insert 2		
D,E,F,V,Z																				
62VO DL 62VO																				
125	235	345	455	565	675	785	895	1005	1115	270	255	240	225	210						
<b>PANTERA</b> ITL# 182																Flat 3		Insert 2		
TC 1-1000																				
X20 DL KL6																				
75	164	216	310	409	461	545	645	744	796	320	295	270	245							
<b>PARKER</b> ITL# 337 X37																Flat 4		Insert 2		
LARGE PIN OLD & NEW (BRAZIL)																				
IL 1145																				
231	387	543	699	855	1011					335	320	305	290	275	260	245	230	215	200	
<b>PENN/01</b> ITL# 338 X23																Flat 4		Insert 2		
STANDARD																				
IL 1016N																				
190	346	502	658	814	970					365	340	315	290	265	240	215	190			

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10		DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10		
PENN/02										ITL#	339							Flat	4		Insert	2	
LARGE																							
IL 1016N																							
185	341	497	653	809	965						360	335	310	285	260	235	210						
PEUGEOT										ITL#	70	XF115			FGK256			Flat	2		Insert	2	
01E-649E, 85+ TRUNK AND GLOVE																							
X148 IL PG5																							
142	240	339	437	535							287	264	240	217	193								
PEUGEOT/01										ITL#	340	XF103			FGK165			Flat	3		Insert	2	
F11111M-F77777M DIRECT DIGIT																							
X12 DL NE32																							
94	199	303	407	512							181	197	213		228		244						
PEUGEOT/02										ITL#	341							Flat	3		Insert	2	
S,T,X,Y,Z PRE 60'S																							
63N DL 63Q																							
145	250	355	460	565							180	195	210		225		240						
PEUGEOT/03										ITL#	342	XF100			FGK221			Flat	3		Insert	2	
B,E,G,H,J DIR DIG E=0,J=1,H=2,G=3,B=4,WARD=5/SPC6																							
X116 IL RN24 D																							
94	199	303	407	512	640						299	288	268	248	225	220							
PEUGEOT/04										ITL#	343								Flat	3		Insert	2
A +5 DIGITS DIRECT DIGIT																							
P67F DL 63P																							
145	245	345	445	545							250	230	210	185	160								
PEUGEOT/05										ITL#	344	XF104			FGK217			Flat	3		Insert	2	
44444-00000 DIRECT DIGIT																							
X12 DL NE32																							
94	199	303	407	512							272			205		181		228	252				
PEUGEOT/06										ITL#	345								Flat	3		Insert	2
V '77-78																							
X89 DL KM9																							
220	315	410	505	600	695						272	248	224										
PEUGEOT/07										ITL#	346	XF110			FGK241			Flat	3		Insert	2	
E01-E649 TRUNK AND GLOVE 1965+																							
P73U IL V91P D																							
146	244	343	441	539							280	256	232	209	185								
PEUGEOT/08										ITL#	347	XF111			FGK223			Flat	4		Insert	2	
V1-224 & C,J,R,W,Y,Z1-224 TRUNK AND GLOVE 1977+																							
P64K,62U,X89,S																							
520	425	331	236	142							272	248	224										
PEUGEOT/09										ITL#	348	XF112			FGK224			Flat	3		Insert	2	
11A111-43A555 TRUNK AND GLOVE 1965-79																							
P67F,63P DL 63																							
148	246	344	443	541							248	224	201	177	154								
PEUGEOT/10										ITL#	70	XF115			FGK256			Flat	3		Insert	2	
01E-649E, 1985+ TRUNK & GLOVE																							
X148 IL PG5																							
142	240	339	437	535							287	264	240	217	193								
PONTIAC LEMANS										ITL#	349	XF205			FGK269			Flat	3		Insert	2	
S SER 1988+																							
X168,B61																							
106	189	271	354	436	519	601	684	766	849		325	301	278	254									

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10	
<b>PORSCHE/01</b>																					
5406-5552										ITL# 350											
63 DL 63										Flat 3 Insert 2											
165	260	355	450	545	640	735	830	925	1020	265	250	235	220								
<b>PORSCHE/02</b>																					
FL 1-1800										ITL# 351											
P79A DL KP1										Flat 3 Insert 3											
150	288	426	564	702	840	978	1116														
<b>PORSCHE/03</b>																					
K 100-199										ITL# 352											
P68Z DK 64K										Flat 3 Insert 2											
240	365	490	615	740	260	252	238	224	210												
<b>PORSCHE/04</b>																					
K 300-399										ITL# 353											
P69A DL DM4										Flat 3 Insert 2											
235	363	491	619	747	875	1003	1131	255	237	219	210	183									
<b>PORSCHE/05</b>																					
HC & NC 1-2080										ITL# 354 XF36											
A81M,A81L DL										FGK156 Flat 3 Insert 2											
118	197	276	354	433	512	591	669	748	827	272	252	232	213								
<b>PORSCHE/06</b>																					
G & SG 1-540 SC,SD & SO 1-750										ITL# 355											
										Flat 3 Insert 2											
135	225	315	405	495	585	675	765	855	945	257	242	227	212	197							
<b>PORSCHE/07</b>																					
AH AN HV N NV VB 1-854 2001-2830 4001-5151 7101-8154										ITL# 356											
ENTER 2ND, 4T										FGK125 Flat 3 Insert 2											
105	195	235	330	425	465	590	705	745	865	300	276	252	228								
<b>PORSCHE/08</b>																					
AH AN HV N NV VB 1001-1918 3001-3890 6001-7086 8201-9282										ITL# 357											
ENTER 2ND, 5T										FGK 126 Flat 3 Insert 2											
105	195	235	330	445	570	610	705	745	865	300	276	252	228								
<b>PUNDRA/01</b>																					
-										ITL# 358											
DL PU3										Flat 3 Insert 2											
125	220	315	410	505	250	210	180														
<b>PUNDRA/02</b>																					
K 125-187 STANLEY T HANDLES										ITL# 359 05											
IL 1866-10 ORI										Flat 3 Insert 2											
139	232	325	418	511	250	235	220	205	190												
<b>RAMBLER</b>																					
1970 AND LP										ITL# 25 01											
IL 1970AM										Flat 3 Insert 2											
150	243	336	429	522	250	225	200	175	150												
<b>READING</b>																					
STANDARD										ITL# 360 X19											
IL 1019,1019D										Flat 4 Insert 2											
200	355	510	665	820	345	330	315	300	285	270	255	240	225	210							
<b>REESE/01</b>																					
PADLOCK										ITL# 361											
IL 1140G										Flat 3 Insert 2											
250	375	500	625	750	875	1000	1125	256	241	226	211	196	181	166	151						

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10	
<b>REESE/02</b>																					
PADLOCK 250,490																					
IL 1098DB																					
150	243	336	429	522	615					250	235	220	205	190							
<b>RENAULT/01</b>																					
S,T,X,Y,Z PRE 1960																					
63N DL 63Q																					
145	250	355	460	565	670					180	195	210	225	240							
<b>RENAULT/02</b>																					
S,T,X,Y,Z 1960+																					
63N DL 63Q																					
160	290	420	550	710					180	195	210	225	240								
<b>RENAULT/03</b>																					
1111E-4444E IGN 1960'S DIRECT DIGIT SERIES																					
R80B																					
157	287	417	547					248	224	201	177										
<b>RENAULT/04</b>																					
SER 11111-77777 DIR DIG ANY LTR BEFORE OR AFTER #																					
DL R63Q,NE20																					
150	252	354	456	558					190	205	220	235	250								
<b>RENAULT/05</b>																					
DIRECT DIGIT E=1,D=2,C=3,G=4,B=5 DOOR&TRUNK 1977 ALSO T/V CODES																					
X85,X92 IL RN2																					
87	191	295	400	504	608					299	283	256	252	228							
<b>RENAULT/06</b>																					
LeCAR IGNITION 11111-44444 DIRECT DIGIT																					
X12 DL NE22 E																					
95	200	305	410	515					178	196	210	227									
<b>RENAULT/07</b>																					
PEUGEOT,AMC,SIMCA E,M,N,P,R DEPTH 0=E,1=R,2=P,3=N,4=M,5/SP6=WARD																					
X116 DL NE34 I																					
94	199	303	407	512	616					299	278	258	236	217	220						
<b>RENAULT/08</b>																					
1986 SLOT KEY M,N,P,R,S S=0,R=1,P=2,N=3,M=4 DIRECT DIGIT																					
IL RN30																					
94	199	303	407	512	616					299	278	258	236	217							
<b>RENAULT/09</b>																					
2700-4816D 1981+ DOOR/TRUNK																					
X122 DL NE46																					
189	287	386	484	583	681					287	264	240	217								
<b>RENAULT/10</b>																					
A/Z222222-999999 1976 DOOR/TRUNK DIRECT DIGIT DP9=0 DP5=1 DP2=2																					
X61 DL NE40 C																					
91	195	299	404	508	612					197	226	256									
<b>RENAULT/11</b>																					
1R000-3R1837 1970'S DOOR & TRUNK																					
DL VC29 ILCO																					
150	248	347	445	543	642					299	283	268	252	236							
<b>RENAULT/12</b>																					
PEUGEOT X12 DIR DIG FROM BOW 0=0 9=1 8=2 4=3 6=4 1971-79																					
X12 DL NE32 IL																					
94	199	303	407	512					272	205	181	228	252								

SP1 SP2 SP3 SP4 SP5 SP6 SP7 SP8 SP9 S10		DP0 DP1 DP2 DP3 DP4 DP5 DP6 DP7 DP8 DP9 D10
<b>RIFKIN</b>	ITL# 384	Flat 3 Insert 3
BANK BAGS		
YALE 10-1/2		
146 286 426 566 706 846		250 232 214 196 178 160 142
<b>RIXSON</b>	ITL# 374 X25	Flat 4 Insert 2
RIXSON-FIREMARK INC LARGE PIN		
80		
200 365 530 695 860		310 290 270 250 230 210 190 170 150
<b>RUSSWIN/01</b>	ITL# 375	Flat 4 Insert 2
752 OLD		
ILCO 1012A		
375 531 687 843 999 1155		315 295 275 255 235 215 195
<b>RUSSWIN/02</b>	ITL# 112 X46	Flat 3 Insert 2
SMALL		
ILCO X1000KR		
146 271 396 521 646 771		250 236 222 208 194 180 166 152 138 124
<b>RUSSWIN/03</b>	ITL# 377	Flat 4 Insert 2
LARGE		
56 ILCO 1011 D		
250 406 562 718 874 1030		315 295 275 255 235 215 195
<b>RUSSWIN/04</b>	ITL# 378	Flat 4 Insert 2
R	<i>unstable Warren</i>	
55P ILCO 1011P		
250 406 562 718 874 1030		330 315 300 285 270 255 240 225 210
<b>RUSSWIN/05</b>	ITL# 379 42	Flat 4 Insert 2
SECTIONAL		
ILCO 1011D1 D		
250 406 562 718 874 1030		343 328 313 298 283 268 253 238 223 208
<b>RUSSWIN/06</b>	ITL# 380 41	Flat 4 Insert 2
STANDARD + SERIES K IS 5 PIN N IS 6 PIN LARGE PIN		
ILCO 1011D1 E		
250 406 562 718 874 1030		328 313 298 283 268 253 238 223 208 193
<b>SAAB/01</b>	ITL# 382 XF57	FGK100 Flat 1 Insert 2
21001-23300 201001-20300 221001-223300 301001-303300		
S66L,X31,65V D		
157 299 441 583 724 866		157 185 213 240
<b>SAAB/02</b>	ITL# 383 XF56	FGK210 Flat 3 Insert 2
AC1-1000 AC1001-2000		
X52 DL SB9,CU		
87 173 260 346 433 520 606 693 780 866		283 260 236 213
<b>SARGENT&amp;GREENLEAF/01</b>	ITL# 384 56	Flat 3 Insert 3
FILE CABINET		
ILCO 997E		
146 286 426 566 706 846		268 250 232 214 196 178 160 142
<b>SARGENT&amp;GREENLEAF/02</b>	ITL# 385	Flat 1 Insert 2
GUARD KEY FLAT STEEL USE SLOTTING CUTTER!		
-		
807 760 705 650 595 540		275 255 235 215 195 175 155
<b>SARGENT&amp;GREENLEAF/03</b>	ITL# 386	Flat 1 Insert 2
LOCKER LOCKS FLAT STEEL USE SLOTTING CUTTER!		
-		
905 860 815 770 725 680 635		271 251 231 211 191 171 151

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10				
SARGENT&GREENLEAF/04										ITL# 387					Flat 1					Insert 2				
SAFETY DEPOSIT LOCKS FLAT STEEL USE SLOTTING CUTTER'																								
-																								
807	760	705	650	595	540					320	300	280	260	240	220	200	180	160						
SARGENT/01										ITL# 44					Flat 4					Insert 2				
MK SECTIONAL & S																								
ILCO 1007KMA																								
215	371	527	683	839	995	1151				330	310	290	270	250	230	210	190	170	150					
SARGENT/02										ITL# 389 43					Flat 4					Insert 2				
U																								
ILCO L1010N D																								
215	371	527	683	839	995	1151				330	318	305	293	280	268	255	243	230	218					
SARGENT/03										ITL# 390					Flat 3					Insert 2				
8M SMALL																								
ILCO 1010B																								
141	266	391	516	641	766					286	273	261	248	236	223	211	198	186	173					
SCHLAGE/01										ITL# 391 45					Flat 4					Insert 2				
PIN-TUMBLER																								
145 ILCO A1145																								
231	387	543	699	855	1011					335	320	305	290	275	260	245	230	215	200					
SCHLAGE/02										ITL# 392					Flat 8					Insert 1				
OLD WAFFER - USE CUT 9 TO WIDDEN TIP CUT																								
707A,SC22																								
270	396	522	648	774	900	1026	1184	1260		296	220													
SECURITY										ITL# 393					Flat 3					Insert 2				
-																								
-																								
243	398	553	708	863	1018					320	305	290	275	260	245	230								
SEGAL/01										ITL# 394					Flat 4					Insert 2				
OLD																								
ILCO 01022AR																								
245	401	557	713	869	1025	1181				315	295	275	255	235	215	195	175							
SEGAL/02										ITL# 395					Flat 4					Insert 2				
1955 & UP ARROW																								
ILCO 1022																								
260	415	570	725	880					306	286	266	246	226	206	186									
SIMCA										ITL# 396					Flat 3					Insert 2				
LETTER-5 NUMBERS-LETTER DIR DIGIT																								
M68T DL NE18 I																								
94	198	302	406	510	614	718				183	199	215	231			247								
SKILLMAN										ITL# 397					Flat 4					Insert 2				
KEY-IN-KNOB																								
ILCO R1001EN																								
197	353	509	665	821	977					328	314	300	286	272	258	244	230	216	202					
SLAYMAKER/01										ITL# 398					Flat 4					Insert 2				
PIN TUMBLER																								
ILCO 1074B																								
220	375	530	685	840	995					320	295	270	245	220	195									
SLAYMAKER/02										ITL# 399					Flat 3					Insert 3				
WAFER(PHONE LOCK)																								
ILCO 1155B																								
165	250	335	420	505					200	185	170	155	140											

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>SLAYMAKER/03</b>																				
PADLOCK WAFER #701																				
ILCO 1120D																				
160	253	346	439	532						282	252	222								
<b>SLAYMAKER/04</b>																				
#66 PADLOCK																				
K266																				
167	317	467	617	767						295	260	235	210	185						
<b>SOTOH</b>																				
BUCK TRACTOR																				
TAYLOR V78JK																				
80	160	240	320	400	480					262	249	236	223	210						
<b>STERLING</b>																				
87+EL SER FORD TRUCK 86+ E SER																				
98	185	272	358	445	531	626	673	768	815	299	276	252	228							
<b>SUBARU/01</b>																				
E 601-900 TRUNK																				
D72Z DL SJ4																				
150	250	350	450	550	650	750	850	950	1050	235	218	198	178							
<b>SUBARU/02</b>																				
F001-1000 W001-1000																				
X6 DL SJ1, ESP																				
157	256	354	453	551	650					276	256	236	216							
<b>SUBARU/03</b>																				
X8001-9000 Y8001-9000																				
X123,X124																				
114	197	280	362	445	528	610	693				276	256	236	217						
<b>SUBARU/04</b>																				
E601 900																				
157	256	354	453	551	650						236	217	197	177						
<b>SUNAR-DOM</b>																				
2C2000																				
DL DM21																				
120	218	316	414	512	610	708	806	904	1002	260	245	230	215	200						
<b>SUZUKI SAMURAI</b>																				
U3001-4000, U7001-8200 CHEVY NOVA(TOYOTA) 1986+ R FOR IGN S FOR SECONDARY																				
98	197	296	394	492	591						276	256	236	217						
<b>SUZUKI SIDEKICK</b>																				
18100-19299																				
X186,SUZ17																				
98	181	264	347	429	512	595	677				315	299	284	268	252					
<b>SUZUKI SWIFT</b>																				
U0001-2000																				
X185,SUZ15																				
98	181	264	347	430	513	596	679				323	296	268	241						
<b>SUZUKI/01</b>																				
'77/8 101-460																				
X87 DL SK11																				
98	197	295	394	492	591						275	256	236	217						

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>SUZUKI/02</b>																				
1111-4555 DIRECT DIGIT										ITL# 407 Flat 3 Insert 2										
S74H,G,K,J 1ST																				
285 425 565 705 845 985 1125										150 180 210										
<b>SUZUKI/03</b>																				
11111-44444 DIRECT DIG USING 1ST 4 #'S										ITL# 408 Flat 3 Insert 2										
X11 DL SK5																				
70 170 270 370 470										175 195 215 235										
<b>TAUNUS/01</b>																				
GERMAND FORD TC 1-2000										ITL# 82 Flat 3 Insert 2										
X20 DL KL6 ES																				
75 164 216 310 409 461 545 645 744 796										320 295 270 245										
<b>TAUNUS/02</b>																				
GERMAN FORD PN 101-295 EL & ER 1-195										ITL# 198 Flat 3 Insert 2										
130 250 370 490 610 730 850 970 1090										275 255 235										
<b>TAUNUS/03</b>																				
GERMAN FORD OA 1-210										ITL# 197 Flat 3 Insert 2										
F76M DL H62FD																				
130 250 370 490 610 730										275 255 235										
<b>TAYLOR/01</b>																				
WAFER FILE CABINET										ITL# 411 Flat 3 Insert 2										
ILCO 1141K ORI																				
120 213 306 399 492										210 190 170 150										
<b>TAYLOR/02</b>																				
LARGE										ITL# 412 49 Flat 4 Insert 2										
111GE ILCO 11																				
235 390 545 700 855										322 302 282 262 242 222 202										
<b>TAYLOR/03</b>																				
111K										ITL# 413 Flat 4 Insert 3										
141 282 423 564 705 846										250 230 210 190 170 150 130										
<b>TELE-LOCK</b>																				
TELEPHONE LOCKS										ITL# 415 Flat 3 Insert 3										
ILCO 1155B																				
125 250 375 500 625										185 170 155 140										
<b>TOYOTA/01</b>																				
1001-4200 TR & GL BOX 65-68 5 SPACES ONLY 6TH & 7TH ADDED TO FLATTEN TIP										ITL# 511 FGK130 Flat 3 Insert 1 A										
T78M ILCO TR1																				
567 449 331 213 95 55 15										256 276 295 256 276 295										
<b>TOYOTA/02</b>																				
PRE 69 511121-515543 55112-555424 611121-615543 651112-655424										ITL# 417 Flat 3 Insert 2										
T69R DL TA6																				
70 170 270 370 470 570										232 216 197 178										
<b>TOYOTA/03</b>																				
1116-6662 111212-61661										ITL# 418 XF84 Flat 3 Insert 2										
138 276 414 552 690 820										220 189 157										
<b>TOYOTA/04</b>																				
TOYOTA D,F,K,P,R,S ISUZU/LUV C MITSUB H CHEVY SPR U HYUNDAI Z0001+										ITL# 285 XF80 FGK131 Flat 3 Insert 2										
T80R,X137,145,																				
98 197 295 394 492 591										276 256 236 217										



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>TOYOTA/05</b>																				
										ITL# 416	XF82					Flat 3		Insert 2		
'77/8 1001-2500 3001-4500 5001-6500																				
T81B,X46 DL TA																				
178 284 390 496 602 708												268	248	228	208					
<b>TOYOTA/06</b>										ITL# 421	XF81			AGK613		Flat 3		Insert 2		
A 1-4640 M5551-9280 N1921-2200,T3400,7899																				
T80V,T80U DL Z																				
82 181 280 378 476 575												217	236	256	276					
<b>TOYOTA/07</b>										ITL# 512	XF87			FGK259		Flat 3		Insert 2		
S0001-2000																				
X151																				
128 211 293 376 459 541 624 707												315	301	287	274	260	246	232		
<b>TOYOTA/08</b>										ITL# 196	XF88			FGK266		Flat 5		Insert 2		
G,P 1-2000,1989 &UP X, W0001-2000 TOYOTA CELICA SPORT COUPE 1991 MR2																				
X174,ILCO TR4																				
98 181 264 347 429 511 595 677												327	299	272	244					
<b>TOYOTA/09</b>										ITL# 513	XF208			FGK277		Flat 3		Insert 1 A		
10001-15000 CAMRY 92+ GEO 93+																				
X217 ILCO TR4																				
882 791 701 610 520 429 339 248												325	299	274	248					
<b>TOYOTA/10</b>										ITL# 516	XF209			FGK279		Flat 3		Insert 2		
N0001-2000 COROLLA WAGON 93+																				
X223 ILCO TR5																				
102 197 291 386 480 575 669												323	299	276	252					
<b>TRIUMPH/01</b>										ITL# 423						Flat 3		Insert 2		
CYCLES FK,FS 1-99 876-955																				
S71B,V76T DL 6																				
155 250 345 440 535												238	205	172						
<b>TRIUMPH/02</b>										ITL# 424						Flat 3		Insert 1		
NH 2000-3001																				
M81G DL UN2 E																				
160 255 350 445 540 635 730 825 920 1015												305	290	270	250					
<b>TRIUMPH/03L</b>										ITL# 425						Flat 3		Insert 1		
WR 1001-2000 LONG SIDE																				
X55 DL WB1																				
265 345 425 505 585 665 745 825 905 985												255	275	300	330					
<b>TRIUMPH/03S</b>										ITL# 426						Flat 3		Insert 1		
WR 1001-2000 SHORT SIDE																				
X55 DL WB1																				
190 270 350 430 510 590 670 750 830 910												255	275	300	330					
<b>TRIUMPH/04</b>										ITL# 427						Flat 6		Insert 2		
TR3 FP 626-750 & FR 751-875																				
62DL/N DL 62D																				
145 245 345 445 545 645												235	205	175						
<b>TRIUMPH/05</b>										ITL# 243	XF47					Flat 3		Insert 2		
WR 2001 & UP CUT SIDE 1 REG-- SIDE 2 BUTT AGAINST INSERT 2																				
X55 DL WB2																				
63 130 197 264 331 398 465 532 598 665												325	299	274	248					
<b>TRIUMPH/05L</b>										ITL# 428						Flat 3		Insert 1		
WR 2001 & UP LONG SIDE																				
X55 DL WB2																				
135 202 269 336 403 470 537 604 671 738												327	302	277	248					



SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>VOLKSWAGEN/09</b>										ITL# 448				FGK124		Flat 3		Insert 2		
U,V 1-1000																				
V72B/N DL 63V																				
158	285	413	541	669	797							256	236	217	197	177				
<b>VOLKSWAGEN/10A</b>										ITL# 433	XF5			FGK108		Flat 3		Insert 1		
A,T 3001-6150 SHOULDER SIDE																				
V70D,V72L DL 6																				
100	250	400	550									262	238	214						
<b>VOLKSWAGEN/10B</b>										ITL# 432	XF5			FGK108		Flat 3		Insert 1		
A,T 3001-6150 1A1-74A74 PLAIN SIDE																				
V70D,V72L DL 6																				
175	325	425	625									262	238	214						
<b>VOLKSWAGEN/11A</b>										ITL# 438	XF07			FGK114		Flat 3		Insert 2		
DV 01-01 TO 64-64 SHOULDER SIDE																				
V77V DL KL5																				
220	358	496	634	772								310	285	262	239					
<b>VOLKSWAGEN/11B</b>										ITL# 437	XF07			FGK114		Flat 3		Insert 2		
DV 01-01 TO 64064 PLAIN SIDE																				
V77V DL KL5																				
180	318	456	594	732								310	285	262	239					
<b>VOLKSWAGEN/12A</b>										ITL# 445	XF3			FGK119		Flat 3		Insert 2		
11K001-72K110 11L001-72L110 SHOULDER SIDE																				
V78J,JK,G,V81																				
180	336	492	648	804								255	232	209	186	172				
<b>VOLKSWAGEN/12B</b>										ITL# 444	XF3			FGK119		Flat 3		Insert 2		
11K001-72K110 11L001-72L110 11M001-72M110 11R001-72R110 PLAIN SIDE																				
V78J,JK,G,V81																				
104	260	416	572	728								255	232	209	186	172				
<b>VOLKSWAGEN/13</b>										ITL# 356				FGK125		Flat 3		Insert 2		
AH AN HV N NV VB 1-854 2001-2830 4001-5151 7101-8154																				
ENTER 2ND, 4T																				
105	195	235	330	425	465	590	705	745	865			300	276	252	228					
<b>VOLKSWAGEN/14</b>										ITL# 357				FGK126		Flat 3		Insert 2		
AH AN HV N NV VB 1001-1918 3001-3890 6001-7086 8201-9282 ENTER 2ND																				
X9 DL CA1 ESP																				
105	195	235	330	445	570	610	705	745	865			300	276	252	228					
<b>VOLKSWAGEN/15A</b>										ITL# 446	XF04					Flat 3		Insert 2		
AH AN HV NV N VB 1-9282 ENTER 2ND 4TH 5TH AND 6TH SPACES TWICE																				
X9,X88																				
105	195	235	330	425	465	570	610	705	745			300	276	252	228					
<b>VOLKSWAGEN/15B</b>										ITL# 447	XF04					Flat 3		Insert 2		
TIED TO PREVIOUS CODE																				
865												300	276	252	228					
<b>VOLKSWAGEN/16</b>										ITL# 449				FGK127		Flat 3		Insert 2		
01VA01-55VA99 FIRST 2 DIGITS=2,4,6,8 CUTS																				
X8 DL HF27 L																				
95	189	284	378	472	567	661	756	850				284	268	252	236					
<b>VOLKSWAGEN/17</b>										ITL# 450	XF8			FGK242		Flat 3		Insert 2		
501-790																				
X132																				
126	220	315	409	504								289	260	230						

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10		DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
VOLKSWAGEN/18										ITL# 453	XF6			FGK199			Flat 3		Insert 2		
FB1-210 DASHER TRUNK,GLOVE RABBIT GLOVE																					
X53 DL HF36 C																					
140	260	380	500	620	740					282		262		238							
VOLVO/01										ITL# 455							Flat 2		Insert 2		
OAA 1-2663																					
V70A DL VL1																					
120	240	360	480	600	720					278	258	238	218	198							
VOLVO/02										ITL# 456	XF50			FGK103			Flat 3		Insert 2		
IGN E11111-E555555 V-W 11115A-51111A DIRECT DIGIT, 1 IS DEEPEST AND 5 SHALLOWEST																					
V79D																					
150	280	410	540	670					212	232	252	272	285								
VOLVO/03										ITL# 71							Flat 6		Insert 2		
FA,FP,FR																					
162	257	352	447	617	640					238	205	175									
VOLVO/04										ITL# 460	XF51			FGK195			Flat 3		Insert 2		
IGN 7001-9000 SEC 6250-6499																					
X29,30 DL NE24																					
98	185	272	359	446	533	643	684	817	858		298	275	252	229							
VOLVO/05										ITL# 461	XF52			FGK216			Flat 3		Insert 2		
1A000-5A745 IGNITION AND DOOR 1977+ **NOTE USE FLAT 8 FOR SPACES 9&10																					
X80,X140																					
98	197	295	394	492	591	689	787	870	936		320	294	268	242							
VOLVO/06										ITL# 462	XF53			FGK104			Flat 3		Insert 2		
IGNITION 1965-67 111111-555555 DIRECT DIGIT ALSO VOLVO PENTA MARINE																					
V77 DL NE6 CU																					
142	246	350	455	559	663					157	177	197	217	236							
VOLVO/07										ITL# 463	XF55						Flat 3		Insert 2		
W601-W842 WASO GAS CAPS																					
TAYLOR/DL WS																					
146	240	335	429	524					291	268	244										
VOLVO/08										ITL# 441							Flat 3		Insert 2		
D,E,F,V,Z																					
62VO DL 62VO																					
125	235	345	455	565	675					270	255	240	225	210							
WALSCO										ITL# 464							Flat 3		Insert 2		
F360 PADLOCK																					
VK015																					
168	393	549	705	861	1017					330	315	300	285	270	255	240	225	210	185		
WANG (ESP)										ITL# 465							Flat 4		Insert 2		
W 1-740																					
L54B,ILCO L105																					
128	225	322	419	516					249	229	209	189	169								
WEISER/01										ITL# 466							Flat 8		Insert 2		
OLD																					
ILCO A1054WB																					
237	393	549	705	861	1017	1173				320	302	284	266	248	230	212	194	176	158		
WEISER/02										ITL# 167	50						Flat 8		Insert 2		
NEW																					
H54WA ILCO 10																					
237	393	549	705	861	1017	1173				315	297	279	261	243	225	207	189	171	153		

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10		DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10		
<b>WELCH</b>										ITL# 467	51											Flat 6	Insert 2
STANDARD																							
133 ILCO 1123																							
164	339	514	689	864	1039						330	315	300	285	270	255	240	225	210	195			
<b>WESLOCK/01</b>										ITL# 468	52											Flat 8	Insert 2
ALL																							
175 ILCO 1175																							
220	376	532	688	844	1000						330	314	299	283	268	252	236	221	205	190	174		
<b>WESLOCK/02</b>										ITL# 469												Flat 8	Insert 2
NEW VANGUARD																							
-																							
220	376	532	688	844	1000	1156						328	312	296	265	250	234	219	204	187			
<b>WILSON-BOHANNAN/01</b>										ITL# 470												Flat 3	Insert 2
#40 PADLOCK																							
ILCO 1071C																							
160	295	430	565	700	835						240	225	210	195	180	165	150						
<b>WILSON-BOHANNAN/02</b>										ITL# 471												Flat 4	Insert 2
PADLOCKS 220,620,660																							
ILCO 1071B																							
164	299	434	569	704	839						325	310	295	280	265	250	235	220	205				
<b>WILSON-BOHANNAN/03</b>										ITL# 472												Flat 3	Insert 3
659 PADLOCK SMALL																							
19																							
112	252	392	532	672						205	190	175	160	145	130	115							
<b>WILSON-BOHANNAN/04</b>										ITL# 473												Flat 3	Insert 2
PADLOCKS 621,622,6600,6210																							
ILCO 1071																							
194	349	504	659	814	969						325	310	295	280	265	250	235	220	205				
<b>XL/01</b>										ITL# 474												Flat 4	Insert 2
K																							
XL7																							
185	310	435	560	685						237	217	197	177										
<b>XL/02</b>										ITL# 475	53											Flat 4	Insert 2
X1-500 LETTER BOX																							
XL7																							
185	310	435	560	685						240		210		180		165							
<b>YALE/01</b>										ITL# 476												Flat 4	Insert 2
#8 LARGE GA,GB,GC,GD,GE,GF,GG,GH,GK,G																							
14 ILCO 999 DL																							
200	365	530	695	860	1025	1190						320	301	282	263	244	225	206	187	168	149		
<b>YALE/02</b>										ITL# 477												Flat 3	Insert 2
GF																							
ILCO 1122AR O																							
140	234	328	422	516	610						250	230	210	190	170								
<b>YALE/03</b>										ITL# 478												Flat 3	Insert 2
IN & AL KAUFMAN GATE LOCKS																							
ILCO 1122																							
175	310	445	580	715	850						260	242	224	206	188	170	152						
<b>YALE/04</b>										ITL# 479												Flat 3	Insert 2
WAFER REGULAR																							
ILCO 1122A																							
125	220	315	410	505	600						250	230	210	190	170								

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10					
YALE/05										ITL# 480										Flat 3		Insert 2			
BY WAFER																									
ILCO H1122W																									
485	580	675	770	865	960					250	230	210	190	170											
YALE/06										ITL# 481										Flat 4		Insert 2			
SECTIONAL MK																									
14GA ETC ILCO																									
200	365	530	695	860	1025					317	302	287	272	257	242	227	212	197	182						
YALE/07										ITL# 482										Flat 3		Insert 3			
BABY PADLOCK(WAFER)																									
ILCO 1132 ORI																									
129	222	315	408	501					205	185	165	145	125												
YALE/08										ITL# 483										Flat 3		Insert 2			
8100 PADLOCK WAFER																									
ILCO 1132																									
129	222	315	408	501	594					205	185	165	145												
YALE/09										ITL# 484 X09										Flat 4		Insert 2			
LARGE SECTIONAL SPECIAL PINS!																									
-																									
200	365	530	695	860	1025	1190				320	295	270	245	220	195	170	145								
YALE/10										ITL# 485										Flat 1		Insert 2			
9M-N9M																									
ILCO 1332																									
145	195	245	295	345					300	275	250	225	200	175											
YALE/11										ITL# 486										Flat 1		Insert 2			
15WA 15WB,DSL,MK-SYS IED&IEH																									
ILCO 1332																									
93	143	193	243	293					300	275	250	225	200	175											
YALE/12										ITL# 384 56										Flat 3		Insert 3			
SMALL PIN 10-1/2 1-1600 JA KA 1-1600 12-1/2,13-1/2 STANDARD																									
YALE 10-1/2,12-																									
146	286	426	566	706	846					268	250	232	214	196	178	160	142								
YALE/13										ITL# 384 56										Flat 3		Insert 3			
#10																									
ILCO 997E																									
146	286	426	566	706	846					268	250	232	214	196	178	160	142								
YALE/14										ITL# 488 55										Flat 4		Insert 2			
K 101-299 MAJESTIC HANDLES USING ILCO LOCKS																									
7NX,ILCO 1122,																									
125	220	315	410	505					250	230	210	190													
YAMAHA/01										ITL# 489 MC82										FGK203		Flat 3		Insert 2	
1776-1800 2676-2700																									
DL YH24/29																									
158	256	355	453	552					236				193												
YAMAHA/02										ITL# 490 MC82										FGK203		Flat 3		Insert 2	
1711-1725 2611-2625																									
X18,X39 DL YH1																									
173	271	370	468					236	201																
YAMAHA/03										ITL# 491 MC82										FGK203		Flat 3		Insert 2	
1726-1775 2626-2675																									
X18,X39,X65X6																									
118	216	315	413	512					236				201												

SP1	SP2	SP3	SP4	SP5	SP6	SP7	SP8	SP9	S10	DP0	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP8	DP9	D10
<b>YAMAHA/04</b>										<b>ITL# 496</b>		<b>MC80</b>		<b>FGK227</b>		<b>Flat 3</b>		<b>Insert 2</b>		
A,B,C,D,E,F 11111-44444 1981+ DIRECT DIGIT OR A,B,C,D,E,F 32010-79897																				
X120,X119,X117																				
157	256	354	453	551						295	276	256	236							
<b>YAMAHA/05</b>										<b>ITL# 497</b>		<b>MC81</b>		<b>FGK218</b>		<b>Flat 3</b>		<b>Insert 2</b>		
3101-4900,77-80																				
X62,X63,X69,X7																				
157	256	354	453	551						295	266	236								
<b>YUGO</b>										<b>ITL# 498</b>		<b>XF203</b>		<b>FGK267</b>		<b>Flat 3</b>		<b>Insert 2</b>		
G3001-4530 1987+ DOOR,TRUNK & GAS																				
X167,YU2																				
220	331	441	551	661	772						299	272	244	217						

# CODE ENTRY FORM

TO ENTER EDIT MODE PUSH

NUMBERS ( 801 - 960 ) ON THE 9000 ( 801 - 810 ) ON THE 900

MANUFACTURER: \_\_\_\_\_

SERIES: \_\_\_\_\_

BLANKS: \_\_\_\_\_

ENABLE PAUSE? Y/N: \_\_\_\_\_

EXTENDED TABLE? Y/N: \_\_\_\_\_

TIP TYPE 0 - 3: \_\_\_\_\_

MAXIMUM SPACE 1 - 10: \_\_\_\_\_

FLAT NUMBER 1 - 10: \_\_\_\_\_

MAXIMUM DEPTH 1 - 10: \_\_\_\_\_

INSERT NUMBER 1 - 4: \_\_\_\_\_

MINIMUM DEPTH 0 - 9: \_\_\_\_\_

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NOTE SPACES RANGE 1 TO 1350  
 DEPTHS RANGE 110 - 465

\*   = : \_\_\_\_\_

\* USED IN EXTENDED TABLE



# LIST OF MANUFACTURER ID NUMBERS AND NAMES

ID#	NAME	ID#	NAME	ID#	NAME	ID#	NAME
1	A CALIBRATION CODE	67	BMW/07B	132	CRAFTSMAN/02	196	GEO PRIZM
2	ABUS/01	23	BOMMER	93	CRAFTSMAN/03	507	GEO TRACKER
3	ABUS/02	71	BRITCAR	31	CRICKET(CHRYSLER)/01	197	GERMAN FORD/01
4	ABUS/03	72	BRITISH CAR GAS CAPS	32	CRICKET(CHRYSLER)/02	198	GERMAN FORD/02
5	ABUS/04	73	BRITISH FORD/01	196	DAIHATSU	199	GOAL
6	ABUS/05	74	BRITISH FORD/02	141	DEXTER/01	200	GUARD
7	ABUS/06	75	BRITISH LEYLAND/01	142	DEXTER/02	201	HAFELE(DRAWER LOCK)
8	ABUS/07	76	BRITISH LEYLAND/02	143	DEXTER/03	202	HARLOCK
9	AGE/01	77	BRITISH LEYLAND/03	144	DEXTER/04	203	HILLMAN MINX AUTO
10	AGE/02	78	BROOK NATIONAL	139	DIEBOLD/01	204	HON
11	AGE/03	79	CADILLAC ALLANTE	140	DIEBOLD/02	210	HONDA/01
12	ALFA ROMEO/01	80	CAPRI/01	145	DKW/01	77	HONDA/02
13	ALFA ROMEO/02	81	CAPRI/02	441	DKW/02	206	HONDA/03
181	ALFA ROMEO/03	82	CAPRI/03	503	DOM SMALL PIN	205	HONDA/04
15	ALFA ROMEO/04	83	CAPRI/04	147	DOMINION	211	HONDA/05
18	ALFA ROMEO/05	84	CESSNA	148	DONNER/01	510	HONDA/06
20	ALFA-FERRARI-FIAT-YUGO	85	CHALLENGER	149	DONNER/02	208	HONDA/CYCLE/01
21	ALMONT	86	CHANTRELL	479	DURO-STEEL	209	HONDA/CYCLE/02
22	AMERICAN	87	CHESLER	504	EAGLE	212	HONDA/CYCLE/03
23	AMERICAN DEVICE	88	CHEVROLET/01	151	EAGLE/01	213	HONDA/CYCLE/04
24	AMERICAN MOTORS/01	285	CHEVROLET/02	152	EAGLE/02	214	HONDA/CYCLE/05
25	AMERICAN MOTORS/02	90	CHICAGO/01	153	EAGLE/03	215	HONDA/CYCLE/06
26	AMERICAN/01 (JUNKUNC)	91	CHICAGO/02	154	EAGLE/04	216	HUBER
500	AMERICAN/02 (JUNKUNC)	92	CHICAGO/03	155	EAGLE/05	217	HUCK-PIN
27	AMEROCK	93	CHICAGO/04	156	EAGLE/06	218	HUDSON/01
28	ARCO/01	94	CHICAGO/05	159	EAGLE/07	219	HUDSON/02
29	ARCO/02	95	CHICAGO/06	160	ELGIN/01	222	HUDSON/03
30	ARCO/03	96	CHRYSLER/01	161	ELGIN/02	223	HUDSON/04
31	ARROW(PLYMOUTH)/01	97	CHRYSLER/02	162	EMHART SYSTEM 70	224	HUDSON/05
32	ARROW(PLYMOUTH)/02	98	CHRYSLER/03	163	ENGLISH CAM LOCKS	225	HURD/01
33	ARROW/01	99	CHRYSLER/04	164	EURO TRUCK	226	HURD/02
34	ARROW/02	100	CHRYSLER/05	479	EVINRUDE	227	HURD/03
27	ARROW/03	515	CHRYSLER/06	165	EVINRUDE-JOHNSON	228	HURD/04
36	ARROW/04	101	CITROEN/01	166	FALCON	229	HURD/05
37	ARROW/05B	102	CITROEN/02	167	FALCON (WEISER)	230	HURD/06
38	ARROW/05T	103	CLINTON	168	FANAL(MEXICO)	479	HURD/07
39	ASSA/01	104	COLE-HERSEE	169	FIAT/01 YUGO	184	HURD/08
40	ASSA/02	31	COLT(DODGE)/01	13	FIAT/02-ALPHA ROMEO	185	HURD/09
41	ASSA/03	32	COLT(DODGE)/02	172	FIAT/03 IGN	186	HURD/10
42	AUDI/01	105	COLUMBIA	173	FIAT/04	187	HURD/11
43	AUDI/02	106	COMMODORE/01	174	FIAT/05	188	HURD/12
356	AUDI/03	107	COMMODORE/02	176	FIAT/06	231	HYUNDAI/01
357	AUDI/04	108	CORBIN/01	177	FIAT/07	517	HYUNDAI/02
44	AUSTIN HEALEY	111	CORBIN/02	178	FIAT/08	232	ILCO/01
45	AUTH/01	112	CORBIN/03	179	FIAT/09	233	ILCO/02
46	AUTH/02	113	CORBIN/04	180	FIAT/10	234	ILCO/03
47	AUTH/03	121	CORBIN/05	181	FIAT/11	235	ILCO/04
48	AUTH/04	122	CORBIN/06	20	FIAT/12	236	ILCO/05
49	AUTH/05	123	CORBIN/07	179	FIAT/13	237	ILCO/06
50	AUTH/06	125	CORBIN/08	82	FIESTA	238	ILCO/07
24	B&S	126	CORBIN/09	183	FLORENCE	239	ILCO/08
51	BALDWIN	127	CORBIN/10	184	FORD/01	240	ILCO/09
52	BARGMAN	109	CORBIN/CCL/01	185	FORD/02	192	ILLINOIS
54	BEST A2/01	110	CORBIN/CCL/02	186	FORD/03	88	ISUZU-GMC-TRUCK
56	BEST A4/03	114	CORBIN/CCL/03	187	FORD/04	241	IVECO/01
53	BEST-FALCON	115	CORBIN/CCL/04	188	FORD/05	242	IVECO/02
57	BMW CYCLE	116	CORBIN/CCL/05	189	FORT/01	243	JAGUAR/01
64	BMW/01A	117	CORBIN/CCL/06	190	FORT/02B	244	JAGUAR/02
58	BMW/01B	118	CORBIN/CCL/07	191	FORT/02T	135	JAGUAR/03
59	BMW/02	124	CORBIN/CCL/08	192	FRAM	26	JUNKUNC
60	BMW/03	501	CORBIN/CCL/09	193	GENERAL	506	KABA PEAKS /01
61	BMW/04	502	CORBIN/CCL/10	194	GENERAL MOTORS/01	278	KABA PEAKS /02
62	BMW/05A	74	CORTINA(FORD)	195	GENERAL MOTORS/02	505	KABA PEAKS /03
63	BMW/05B	128	COUCH	514	GENERAL MOTORS/03	279	KABA PEAKS /04
66	BMW/06A	129	COURIER(FORD)/01	100	GENERAL MOTORS/04	277	KABA PEAKS /05
65	BMW/06B	130	COURIER(FORD)/02	519	GENERAL MOTORS/05	276	KABA PEAKS /06
68	BMW/07A	131	CRAFTSMAN/01	196	GEO METRO/STORM,ISUZU	247	KAWASAKI/01

# LIST OF MANUFACTURER ID NUMBERS AND NAMES

ID#	NAME	ID#	NAME	ID#	NAME	ID#	NAME
248	KAWASAKI/02	320	NATIONAL/07	344	RENAULT/12	44	TRIUMPH/07
252	KAWASAKI/03	321	NATIONAL/08	384	RIFKIN	429	VIRO/01
253	KAWASAKI/04	322	NATIONAL/09	374	RIXSON	430	VIRO/02
256	KAWASAKI/05	45	NATIONAL/10	375	RUSSWIN/01	431	VIRO/03
257	KAWASAKI/06	334	NATIONAL/11	112	RUSSWIN/02	454	VOLKSWAGEN/01
258	KAWASAKI/07	135	NISSAN/01	377	RUSSWIN/03	439	VOLKSWAGEN/02
259	KAWASAKI/08	136	NISSAN/02	378	RUSSWIN/04	441	VOLKSWAGEN/03
260	KAWASAKI/09	137	NISSAN/03	379	RUSSWIN/05	436	VOLKSWAGEN/04
261	KEIL/01	138	NISSAN/04	380	RUSSWIN/06	440	VOLKSWAGEN/05
262	KEIL/02	44	NORTON CYCLES	382	SAAB/01	442	VOLKSWAGEN/06
263	KENNEDY	324	NORWALK/01	383	SAAB/02	443	VOLKSWAGEN/07
264	KWIKSET/01	325	NORWALK/02	384	SARGENT&GREENLEAF/01	434	VOLKSWAGEN/08
265	KWIKSET/02	326	NORWALK/03	385	SARGENT&GREENLEAF/02	448	VOLKSWAGEN/09
266	LOCKWOOD/01	67	NSU/P	386	SARGENT&GREENLEAF/03	433	VOLKSWAGEN/10A
267	LOCKWOOD/02	68	NSU/S	387	SARGENT&GREENLEAF/04	432	VOLKSWAGEN/10B
86	LOCKWOOD/03	327	OCTAGON	388	SARGENT/01	438	VOLKSWAGEN/11A
268	LORI/01	328	OPEL/01	389	SARGENT/02	437	VOLKSWAGEN/11B
269	LORI/02	330	OPEL/02A	390	SARGENT/03	445	VOLKSWAGEN/12A
270	LORI/03	329	OPEL/02B	391	SCHLAGE/01	444	VOLKSWAGEN/12B
271	LORI/04	331	OPEL/03	392	SCHLAGE/02	356	VOLKSWAGEN/13
272	LORI/05	333	OPEL/04A	393	SECURITY	357	VOLKSWAGEN/14
273	LORI/06	332	OPEL/04B	394	SEGAL/01	446	VOLKSWAGEN/15A
274	LORI/07	445	OPEL/05A	395	SEGAL/02	447	VOLKSWAGEN/15B
275	LORI/08	332	OPEL/05B	396	SIMCA	449	VOLKSWAGEN/16
280	LOWE & FLETCHER	336	OPEL/06	397	SKILLMAN	450	VOLKSWAGEN/17
281	LOXEM	441	OPEL/07	398	SLAYMAKER/01	453	VOLKSWAGEN/18
282	LUSTER LINE/01	182	PANTERA	399	SLAYMAKER/02	455	VOLVO/01
283	LUSTRE LINE/02	337	PARKER	400	SLAYMAKER/03	456	VOLVO/02
285	LUV(GENERALMOTORS)/02	338	PENN/01	401	SLAYMAKER/04	71	VOLVO/03
286	LYON	339	PENN/02	402	SOTOH	460	VOLVO/04
287	MASTER/01	70	PEUGEOT	403	STERLING	461	VOLVO/05
288	MASTER/02	340	PEUGEOT/01	134	SUBARU/01	462	VOLVO/06
289	MASTER/03	341	PEUGEOT/02	136	SUBARU/02	463	VOLVO/07
290	MASTER/04	342	PEUGEOT/03	138	SUBARU/03	441	VOLVO/08
130	MAZDA/01	343	PEUGEOT/04	508	SUBARU/04	464	WALSCO
129	MAZDA/02	344	PEUGEOT/05	405	SUNAR-DOM	465	WANG (ESP)
285	MAZDA/03	345	PEUGEOT/06	285	SUZUKI SAMURAI	466	WEISER/01
294	MAZDA/04	346	PEUGEOT/07	507	SUZUKI SIDEKICK	167	WEISER/02
295	MAZDA/05	347	PEUGEOT/08	196	SUZUKI SWIFT	467	WELCH
296	MAZDA/06	348	PEUGEOT/09	406	SUZUKI/01	468	WESLOCK/01
297	MAZDA/07	70	PEUGEOT/10	407	SUZUKI/02	469	WESLOCK/02
135	MAZDA/08	349	PONTIAC LEMANS	408	SUZUKI/03	470	WILSON-BOHANNAN/01
192	MCKINNEY	350	PORSCHE/01	82	TAUNUS/01	471	WILSON-BOHANNAN/02
298	MEDECO/01	351	PORSCHE/02	198	TAUNUS/02	472	WILSON-BOHANNAN/03
299	MEDECO/02	352	PORSCHE/03	197	TAUNUS/03	473	WILSON-BOHANNAN/04
300	MEDECO/03	353	PORSCHE/04	411	TAYLOR/01	474	XL/01
301	MEDECO/04	354	PORSCHE/05	412	TAYLOR/02	475	XL/02
302	MEDECO/05	355	PORSCHE/06	413	TAYLOR/03	476	YALE/01
303	MERCEDES/01	356	PORSCHE/07	415	TELE-LOCK	477	YALE/02
304	MERCEDES/02	357	PORSCHE/08	511	TOYOTA/01	478	YALE/03
62	MERCEDES/03	358	PUNDR/01	417	TOYOTA/02	479	YALE/04
306	MERCEDES/04	359	PUNDR/02	418	TOYOTA/03	480	YALE/05
307	MERKUR	25	RAMBLER	285	TOYOTA/04	481	YALE/06
309	MG/02	360	READING	416	TOYOTA/05	482	YALE/07
76	MG/03	361	REESE/01	421	TOYOTA/06	483	YALE/08
310	MIAMI-CAREY	192	REESE/02	512	TOYOTA/07	484	YALE/09
518	MITSUBISHI FUSO	362	RENAULT/01	196	TOYOTA/08	485	YALE/10
196	MITSUBISHI/01	363	RENAULT/02	513	TOYOTA/09	486	YALE/11
507	MITSUBISHI/02	364	RENAULT/03	516	TOYOTA/10	384	YALE/12
312	MOPED	365	RENAULT/04	423	TRIUMPH/01	384	YALE/13
313	NATIONAL/01	366	RENAULT/05	424	TRIUMPH/02	488	YALE/14
314	NATIONAL/02	367	RENAULT/06	425	TRIUMPH/03L	489	YAMAHA/01
315	NATIONAL/03	368	RENAULT/07	426	TRIUMPH/03S	490	YAMAHA/02
316	NATIONAL/04	369	RENAULT/08	427	TRIUMPH/04	491	YAMAHA/03
317	NATIONAL/05A	370	RENAULT/09	243	TRIUMPH/05	496	YAMAHA/04
318	NATIONAL/05B	371	RENAULT/10	428	TRIUMPH/05L	497	YAMAHA/05
319	NATIONAL/06	372	RENAULT/11	174	TRIUMPH/06	498	YUGO